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ABSTRACT

The information needs of a small liberal arts library whose curriculum does not support a science or technology research program will differ from the information needs of a major research institution. Likewise, periodical usage will also differ with the two types of libraries. This investigation examines the patterns of periodical usage identified by studies conducted at research libraries, science libraries, technical libraries, special libraries, and by one small liberal arts library. But, these patterns of usage established by prior studies do not reflect today's technological innovations. Patron access to CD-ROM periodical indexes does affect how research is conducted and to what extent a collection is used. The usage data compiled for Shafer Library's "benchmark" investigation quantitatively identifies how its liberal arts periodicals collection is used. The data both confirm and reject the patterns of periodical usage established in the literature by prior studies, and, for administrators, justify the expense of purchasing CD-ROM indexes because collection usage improves dramatically. Spreadsheets displaying data on the periodicals collection, current subscription titles, and titles indexed by INFOTRAC are appended. (30 references; 10 figures/tables) (Author/MAB)

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PERIODICAL USAGE IN A SMALL LIBERAL ARTS LIBRARY: A CASE STUDY

A Master's Research Paper submitted to the
Kent State University School of Library Science
in partial fulfillment of the requirements
for the degree Master of Library Science

by

Kathy Jackson Ossi

March 16, 1991

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ABSTRACT

The information needs of a small liberal arts library whose curriculum does not support a science or technology research program will differ from the information needs of a major research institution. Likewise, periodical usage will also differ with the two types of libraries. This investigation examines the patterns of periodical usage identified by studies conducted at research libraries, science libraries, technical libraries, special libraries, and by one small liberal arts library. But, these patterns of usage established by prior studies do not reflect today's technological innovations. Patron access to CD-Rom periodical indexes does affect how research is conducted and to what extent a collection is used. The usage data compiled for Shafer Library's "benchmark" investigation quantitatively identifies how its liberal arts periodicals collection is used. The data both confirms and rejects the patterns of periodical usage established in the literature by prior studies, and for administrators, justifies the expense of purchasing CD-Rom indexes because collection usage improves dramatically.

Master's Research Paper by

Kathy Jackson Ossi

B.F.A., University of Tennessee, Knoxville, 1979

M.L.S. Kent State University, 1991

Approved by

Advisor Lees Bottlas Date April 8, 1991

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CHAPTER 1

INTRODUCTION

Rationale

The academic library serves a unique group of patrons whose information requirements are determined by course related assignments and independent research. Collection development policies are designed to fulfill the perceived information requirements of the academic library's patron group. Reference materials, books, serials, and periodical collections are developed to satisfy this need for information. But, how effective is a library's selection of materials in building patron orientated collections? Conducting a usage study is one method available to librarians who wish to evaluate a single collection or an entire library operation. Usage studies, as defined by Broadus, are designed to ascertain what is used and to what degree the materials (books, periodicals, entire collections) are used.[1]

Library administrators conduct usage studies to gather quantitative data. Their data form the foundation with which to make logical decisions regarding the management of materials and budgets. The expense of supporting periodical collections (large and small) have prompted administrators

to seek data which would reveal how their collections are used. High patron usage rates reflect sound collection development policies and user oriented collections.[2] Shrinking budgets and high inflation rates have prompted evaluations of science, medical, engineering, dental, veterinarian, and law libraries. The focus of these evaluations are to 1) identify periodical titles not suitable as candidates for deselection, and 2) to justify the expense of titles retained with usage data. Watson's evaluation processes for deselection are also applicable to the process of evaluating periodical usage. Studies should be "(1) carried out in accordance with existing collection management policies; (2) conducted by those possessing an intimate knowledge of the library's users, strengths, and weaknesses, and the parent institution's goals and curricula; and (3) undertaken well in advance of any budgetary crisis."[3]

The information requirements of a small liberal arts college library without a strong science emphasis will differ from the information requirements of a major research institution. Periodical usage will also differ with the two types of institutions. In the field of Library Science, there is a deficiency in published research investigating periodical usage for the liberal arts. Veenstra's and Wright's literature review summarized periodical usage studies conducted at twelve research libraries (science,

medical, dental, academic), one public library, one psychology/education library, and one academic library. They identified the need to conduct usage studies in liberal arts libraries and recommended future investigations targeting materials published for the fields of fine arts, music, and theology.[4]

Purpose

The periodical usage study conducted at Shafer Library of the University of Findlay was not driven by the need to cut budgetary expenses. The purpose of the investigation was to ascertain the strengths and weaknesses of its periodicals collection. The library developed its periodicals collection to support the disciplines of fine arts, humanities, natural sciences, computer science, mathematics, multicultural studies, social sciences, and teacher education. Research conducted by Line indicated that the low end of periodical usage varies widely from institution to institution based on local needs while the high end of usage may be applicable to other libraries. He justified the need to conduct usage studies because "no measure of journal use other than one derived from a local-use study is of any significant practical value to libraries."[5] Therefore, it is hypothesized that there is no correlation between patterns of usage identified by prior

studies dealing with the sciences and patterns of usage identified in a small liberal arts library.

This investigation will quantitatively identify periodical usage patterns and identify portions of the collection which suffer from non-use. The data will confirm or reject the soundness of Shafer Library's collection development policies by indicating whether its periodicals collection is designed for maximum use by its patrons. Lancaster lists four "possible reasons" to conduct an evaluation of library services: 1) to establish a "benchmark" study on which to base future evaluations: 2) to compare services at different institutions for possible applications; 3) to analyze the cost of services rendered; and 4) to identify possible sources of non-use to expedite improvements in the areas identified.[6] The "benchmark" investigation of Shafer Library's periodicals collection was conducted to establish how the collection was used and to what extent.

The results of this investigation may not be limited to Shafer Library. Similar liberal arts library collections may also be in need of evaluation. The demands of implementing sudden budget restrictions on short notice would not allow the time required to conduct a lengthy periodical usage investigation by the affected library. A compilation of usage data which identified usage patterns per periodical title would be applicable for review by

similar liberal arts libraries. The data would identify holdings for a core collection designed for maximum patron usage. The data would also provide examples of titles for which proven usage would indicate continued retention in an established collection, or would indicate suitable additions for another library's collection.

Background

Shafer Library serves the academic community of The University of Findlay. In 1989 the library's patron group was composed of approximately 1600 full and part-time undergraduate students, forty full and part-time graduate students in Multicultural Studies, and eighty nine faculty members. Library services were provided by a staff of four librarians, one media specialist, and five support staff. For the 1988/89 fiscal year, the library's holdings consisted of 112,135 total volumes, and 48,840 microform units. Library services include: reference materials (in print and CD-ROM), online database searching, books, periodicals, serials, newspapers, government documents, juvenile books, a curriculum center, and a media center. Reserve books and photocopied articles are available at the Circulation Desk. The current periodicals collection is composed of donated, document, and paid periodical subscriptions totaling 679 titles. These 679 titles form a collection of scholarly journals, magazines, newsletters,

and newspapers. Current newspapers and periodicals are displayed in the Current Reading Room. Ninety three periodical titles are available at the Periodicals Reserve Desk. Research conducted at the university is primarily at the undergraduate level (with the exception of a small number of graduate students in Multicultural Studies).

Prior to this investigation, estimating which titles are used and how often was impossible. During the peak months of any semester over 1300 reserve pieces are used, as well as an untold number of bound and loose periodicals. Estimating what issues are used in the Current Reading Room poses another problem because current issues are shelved on another floor and out of the investigator's eye sight. The extent of periodical usage by Shafer Library's patron group was unknown. Broadus makes the observation that a formal usage study confirms the small impressions of use observed by the librarian and provides precise information about titles left on tables or from volumes worn out from use.[7]

Shafer Library's periodical collection development policy clearly states its major objective: to purchase titles indexed by reference materials owned by the university. Veenstra warns that a library's collection development policy may follow an uncertain route losing sight of overall objectives, and the collection may become "unresponsive to overall need."[8] Millson-Martula believes a small undergraduate library should be user orientated and

the core periodical collection should "meet 95% of its students' needs."[9] The periodical usage study conducted at the University of Findlay serves as the benchmark investigation to determine if Shafer Library's periodical collection is weighted in favor of one discipline or geared for maximum patron usage.

Definitions

The key terms used for the study are identified below:

CORE COLLECTION: "defined as those materials in the collection which are frequently used."[10]

CURRENT SUBSCRIPTION TITLE: A periodical title that is currently in publication.

DEAD TITLE: A periodical title that is no longer in publication (ceased) or has changed its name. The new title is an current title and the superseded title is a dead title.

IN-HOUSE USE: "Any time a volume is removed from the shelf, the use [is] counted equally, on the democratic assumption that the patron saw some value in removing the volume from the shelf in the first place-even if only to reject it after a brief inspection."[11]

LIBERAL ARTS EDUCATION: "A broad and general exposure to information, rather than specialized training for a particular purpose...refers to the more basic components of the curriculum, including the arts and

sciences."[12] The disciplines included in the curriculum at The University of Findlay organized in eight divisions: Business Administration, Fine Arts, Humanities, Mathematics and Computer Science, Natural Science, Social Science, and Teacher Education, Center for Languages and Multicultural Studies; and Center for Equine and Pre-Veterinary Studies.

PERIODICAL: "a serial which appears or is intended to appear indefinitely at regular intervals, generally more frequently than annually, each issue of which is numbered or dated consecutively and normally contains separate articles, stories, or other writings. Newspapers, proceedings, papers or other publication of corporate bodies primarily related to their meetings, are not included in this term."[13]

PERIODICALS COLLECTION: refers to Shafer Library's journal holdings composed of paid subscriptions, donated subscriptions, United States Government document journals, Ohio document journals, and subscriptions to duplicate microfilm journal titles. The library does not subscribe to duplicate paper copies. Serials classified into the LC collection, newspapers, newsletters and indexing/abstracting journals are not included in this study.

RESERVE TITLE: A select group of periodicals held in a closed stacks area for which circulation is strictly controlled.

SHELVING PROCESS: "That method whereby a periodical which has been used and left on the table by a patron finds its way back to its proper place in the library."[14] This process also includes titles returned to the Periodicals Service Desk and titles left out of place in the stacks.

SERIAL: "a publication in any medium issued in successive parts bearing numerical or chronological designations and intended to be continued indefinitely. Serials include periodicals; newspapers; annuals (reports, yearbooks); the journal, memoirs, proceedings, transactions of societies; and numbered monographic series. (AACRII)"[15] Periodicals are the only type of serial included in this study.

USAGE STUDY: "those that start with a group of library materials, then try to determine what use, or how much use, they receive."[16]

USER STUDY: "begins with people and asks whether, or how much, they use library materials, and perhaps what kinds of resources."[17]

Limitations

The limitations of this type of investigation are inherent in the type of study itself. An in-house usage investigation utilizes uncorroborated evidence because patrons are not surveyed and data consists of units (loose issues, bound volumes) counted and recorded by title. Another limitation to achieving an accurate count is the result of faculty and conscientious students who reshelve items used in order to provide immediate accessibility by others.

This investigation recorded usage by title. Lancaster identified a major problem with prior studies for which quantitative standards used the word "volume" to represent a unit of measurement. He recommended measuring usage by "title" instead of volume. This method would provide a meaningful unit of measure and promote applicability of published reports by other libraries.[18] The usage number per title indicates the number of times a bound volume or loose issue was returned to the Periodicals Service Desk, the Circulation Desk, left on a table, or placed on the book truck next to the photocopier. A bound volume presented another limitation for an accurate count because one volume may contain two to twenty six or more issues. A bound volume left on a table was counted as one use, but in reality it may have provided one or more relevant articles or nothing at all. This method does not measure the

intensity of use each time a title is counted.[19] If the same bound volume was used on different occasions it was counted one time with each use.

CHAPTER 2

LITERATURE REVIEW

All academic libraries, large and small, make fundamental decisions concerning the development of their periodical collections. As Broadus stated, many librarians consider "the single most important criterion (for collection development) is expected use in the library, or cost in relation to use."[20] Usage studies involve all types of library materials, but initial studies were conducted to determine book usage in relation to collection size, by type of library, by date of publication, and whether librarians or faculty selected the books.

The 1979 publication of the University of Pittsburgh's library system usage study sent shock waves to library administrators. Its conclusions reported large expensive research collections that were under-used by library patrons. Kent's Pittsburgh study titled, "Use of Library Materials," only confirmed patterns of usage identified by earlier book usage studies. His study analyzed the use of books/monographs and journals in a major system of research libraries. The author anticipated that knowledge garnered from the study could form the foundation for improving

acquisitions decisions; enable the development of a policy statement for considering alternatives to ownership when economically practical; and identify titles which could be placed in remote storage or deselected.[21]

Hardesty published two articles, in 1981 and 1988, which replicated a portion of the University of Pittsburgh's study. He changed the emphasis from a large research institution to a small academic library and concentrated his study on book usage.[22] His conclusions confirmed Kent's results that Trueswell's 80/20 Rule[23] applied to a large research library and to a small academic library as well. In Hardesty's study, 80% of the library's total circulation during a five year period was accounted for by 30% percent of the books accessioned during the first six months of the study. He relied on the assumptions that circulation was an adequate indicator of book use and that each recorded circulation was counted as one use. Hardesty's research also confirmed Kent's conclusions that new books circulate more than older books. The rate of circulation decline increased rapidly after the first three years. Hardesty also observed that subjects affected usage of the collection. He cited an earlier study by Kaske (1979) whose study reported that portions (disciplines) of the University of California's collection received a higher rate of use than others.[24]

The focus of early library usage studies shifted from books to serials and periodicals. A major portion of any library's materials budget is consumed by serials and or periodicals. Kent was aware of the budgetary implications of managing periodicals and included a sampling study of six science libraries in the Pittsburgh system. A stratified sampling method was used to survey "heavier hours of usage." Data collectors gathered data during sixty-minute or ninety-minute observation periods, two to four times each week for a trimester period. The physics library questionnaire was concerned with use in the "journal area." The other five libraries concentrated on identifying the use of bound volumes, current issues, and serials. Flynn compiled this portion of the study which concluded that journal usage in general was low; the larger the collection the greater the percentage of non-use was; current journals were primarily used; current journals were browsed more than older issues; older articles were accessed through reference materials; 75% of the articles pursued were not photocopied; and photocopying increased with the age of the issue. Flynn also found that use of periodicals varied from one library (or discipline) to another. The Physics Library was "journal-intensive"; the Life Sciences Library used more older issues; and each of the libraries were used by their own majors with very little interdisciplinary crossover.[25]

Veenstra and Wright's 1988 study investigated periodical usage studies conducted at twelve science oriented, technical, and academic research libraries; two academic libraries, and the British Lending Library. Collection sizes ranged from 185 to 48,000 periodical titles, and the study periods varied from three to forty eight months. They computed the mean number of recorded usages per month per title and determined that the size of the library collection had a significant inverse relationship with the percentage of use. The percentage of periodical usage declined as collections grew larger. The authors speculated that "the inverse relationship between percent use and size may be consistent" in all types of libraries: special, academic, and public.[26]

Numerous periodicals usage studies have been conducted and all are similar yet different. The length of the study periods and justification for the studies are as varied as the studies themselves. Eckman's study investigated usage patterns in an environmental design library. He compared journals used in relation to which journals were indexed by indexing/abstracting services over a period of three months.[27] Goldblatt studied the use of current legal journals for a period of twelve months and determined that 37.8% of the collection's titles were not used during the study period. She also analyzed all titles used by: type, language, cost, indexing sources, and faculty opinions.[28]

Konopasek and O'Brien's thirteen-week study investigated campus-wide use of the undergraduate collection. Their goal was to develop a practical method of evaluating periodicals utilizing limited labor and costs. They identified and ranked individual titles according to use, the status of the user (undergraduate, graduate, post-graduate, or faculty), bound volume usage by title and year, and loss rate of current issues by title. They concluded that titles used during the study period satisfied 90% of their patrons' needs for information.[29] Metz and Litchfield, with the aid of a computerized circulation system, analyzed the circulation and in-house use of current periodicals for two-five year periods at Virginia Tech. They concluded that circulation and in-house usage statistics of periodicals are similar to the curriculum's subject distribution, and that short sampling periods would produce similar findings.[30] Miller analyzed 149 patient initiated reference questions asked during her 1983 research project. Her goal was to identify a "well selected core collection" which would answer patient-related questions addressed to a clinical library.[31] An early study conducted in 1972 by Tibbetts, gathered usage statistics in a bio-medical library by title and publication date for two one-week periods. She concluded that 1) a few titles accounted for total usage; 2) the relationship between use and age can be represented by

an equation; 3) and the last five years of publication accounted for 58% of the titles used.[32]

Identifying collection usage to implement immediate collection management activities provided the motivation for other studies. Langlois and Von Schulz studied a physics laboratory library for two and one half months to ascertain titles that were not used and cancelled them. They also determined which titles to convert to microform holdings and which titles would be sent to remote storage. They studied the usage of current issues, usage of bound volumes, and the number of times their journals were cited by Applied Physics Laboratory authors. Information garnered from the survey resulted in a 9.6% reduction in journal subscriptions, and the library gained 7.5% shelf space to display journals.[33] Maxin's 1974 study of a technology library determined periodical usage, incorporated policies derived from the usage study for a permanent collection development program, and established guidelines to manage perceived changes in the future. The techniques of evaluation utilized by Maxin's study were continued indefinitely as a collection evaluation tool. An annual periodicals printout was routed to each division for evaluation. The list included total usage figures for each title per academic year. By providing usage information faculty could easily determine which titles to cancel as identified by non-usage. In this case faculty were only

allowed to add a new title to the collection by cancelling an active subscription.[34]

Budgetary considerations during the 1970s forced evaluations by two libraries to determine the "non-use" of their collections. In 1977 Perk and Pulis reported on their study which identified the "little-used" materials in their education-psychology library. Exploding subscription rates forced their library to cut subscriptions.[35] Alldredge's study, conducted in 1977 and 1978, investigated the non-use of Texas A & M's entire collection (housed in one building except for the medical library). Non-use was defined as no recorded usage during the survey period. With the identification of titles not used for every discipline, 734 of the library's 6327 active subscriptions were cancelled. The cost of each cancelled title averaged $93.43, and $65,120 was shaved off the library's annual cost of subscriptions.[36]

All of the sixteen libraries aforementioned varied in the size of their periodical collections or by subject specialties, but all had one feature in common: they were not liberal arts libraries. Ten years have passed since a published periodical usage study was conducted at a small liberal arts library. Gordon conducted an "observed" usage study during the calendar year 1979 at Fackenthal Library of Franklin & Marshall College (2,000 students and 1,600 periodical titles). Data garnered from the study revealed

that usage increased when influenced by the following factors: indexing materials, bibliographic instruction (limited to certain classes), and by displaying the current issue of each title in special display cases (as opposed to older current issues retained in flat shelving). Gordon's data revealed that general and social science titles were used more than humanities titles; foreign language titles received limited usage regardless of their discipline; and retrospective volumes received more use than current issues because of indexing and abstracting publications available for patron use.[37]

Periodical evaluations have been performed for many years by all types of libraries for many reasons. Patterns of usage identified by this literature review revealed: 1) subsequent studies confirmed that Trueswell's 80/20 Rule applied to books and periodicals; 2) newer issues circulate more than older issues; 3) subjects or disciplines affect the use of the collection; 4) library size has an inverse relationship on collection use-the larger the collection the greater the percentage of non-use; 5) older articles are accessed through reference materials; 6) general and social science titles are used more than humanities titles; 7) usage increased as indexes are consulted; 8) bibliographic instruction increased student usage of collections; 9) shelving factors influence usage; 10) photocopying increased

with the age of the title; and 11) for a multi-library system use varied from one library to another.

The preceding literature review confirms this investigator's premise that liberal arts libraries are in need of evaluation. The types of library's aforementioned included three large research institutions, ten science/ technology libraries, two medical libraries, one law library, one small academic library (book usage only), one undergraduate library, one education/psychology library and one small liberal arts library. The reader may clearly see the absence of published periodical usage research conducted at small liberal arts libraries. Hardesty's opinion that replication of past research is needed to confirm or reject the patterns of collection usage established in the field of Library Science is shared by this investigator.[38] In this case the patterns of usage observed in Gordon's study requires updating because technology has changed significantly in the past ten years. The use of CD-Rom indexes with citations current within months should impact the use of current issues. Will periodical usage at a small liberal arts college confirm or reject the patterns of periodical usage established by investigations conducted at science, research, technical, and special libraries?

CHAPTER III

METHODOLOGY

Subjects

An in-house usage study was the only appropriate method of evaluation available for this investigation. Library policy prohibited periodicals from circulating outside of the building. Circulation statistics were not available as a source of data; therefore, the subjects of this investigation had to be the periodicals themselves. Total collection usage was of primary concern and attention was paid to the two types of periodicals involved: current subscription titles (both current and backrun), and retrospective titles which had ceased publication.

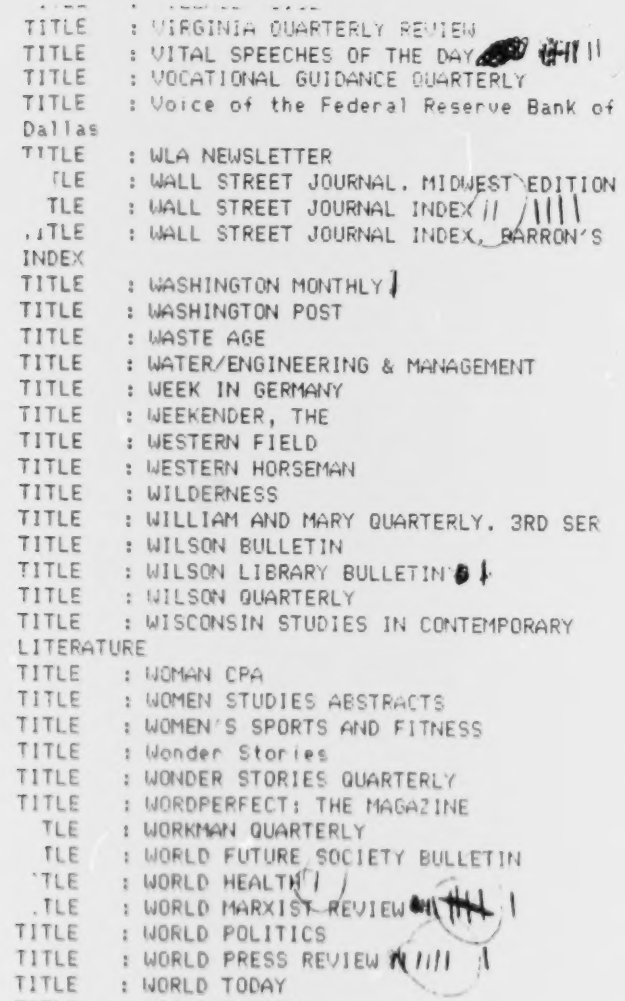
Data Collection

This investigator concurs with Eckman's opinion that each use of a periodical should be "counted equally, on the democratic assumption that the patron saw some value in removing the volume from the shelf in the first place--even if only to reject if after a brief inspection."[39] There was no attempt to "weight" the value or importance of titles used. The counting process was divided into components according to operation involved: Reserve, Current Issues,

Bound Volumes (periodicals stacks), Microforms, Interlibrary Loan (ILL), and Prisons (the University offers Associate Degrees at Lima Correctional Institute and Allen Correctional Institute). Usage for each component was recorded on computer generated periodical title lists derived from the library's Periodicals Holdings List. A mark was recorded for each use per title on the appropriate tally sheet, Figure 1. As stated previously, all periodicals were used in-house. To discourage patrons from shelving materials, signs were posted in the current reading room and the ground floor periodicals area requesting patrons not to shelve periodicals used.

The counting process occurred daily and was tailored to suit the component. Issues used in the Current Reading Room were counted each week day at 10:00 am by the student assistant who shelved them. Loose issues shelved in the periodicals stacks were counted and recorded daily in the Bound Volume tally sheet as items were returned to the Periodicals Service Desk, left on tables, or found out of place in the stacks. The sweep method[40] was employed to tag bound volumes with adhesive dots before reshelving. Titles retained in the Periodicals Reserve collection circulate in-house for a period of two hours, and detailed circulation records were retained for each title. Reserve circulation cards were tallied at the conclusion of each month.

Figure 1.--Sample Tally Sheet


TITLE : VIRGINIA QUARTERLY REVIEW
TITLE : VITAL SPEECHES OF THE DAY
TITLE : VOCATIONAL GUIDANCE QUARTERLY
TITLE : Voice of the Federal Reserve Bank of Dallas
TITLE : WLA NEWSLETTER
TLE : WALL STREET JOURNAL, MIDWEST EDITION
TLE : WALL STREET JOURNAL INDEX
TLE : WALL STREET JOURNAL INDEX, BARRON'S INDEX
TITLE : WASHINGTON MONTHLY
TITLE : WASHINGTON POST
TITLE : WASTE AGE
TITLE : WATER/ENGINEERING & MANAGEMENT
TITLE : WEEK IN GERMANY
TITLE : WEEKENDER, THE
TITLE : WESTERN FIELD
TITLE : WESTERN HORSEMAN
TITLE : WILDERNESS
TITLE : WILLIAM AND MARY QUARTERLY, 3RD SER
TITLE : WILSON BULLETIN
TITLE : WILSON LIBRARY BULLETIN
TITLE : WILSON QUARTERLY
TITLE : WISCONSIN STUDIES IN CONTEMPORARY LITERATURE
TITLE : WOMAN CPA
TITLE : WOMEN STUDIES ABSTRACTS
TITLE : WOMEN'S SPORTS AND FITNESS
TITLE : Wonder Stories
TITLE : WONDER STORIES QUARTERLY
TITLE : WORDPERFECT: THE MAGAZINE
TLE : WORKMAN QUARTERLY
TLE : WORLD FUTURE SOCIETY BULLETIN
TLE : WORLD HEALTH
TLE : WORLD MARXIST REVIEW
TITLE : WORLD POLITICS
TITLE : WORLD PRESS REVIEW
TITLE : WORLD TODAY
TITLE : WORLD'S WORK
TITLE : WRITER
TITLE : YALE REVIEW
TITLE : YELMO
TITLE : YESSIS REVIEW
TITLE : YOUNG CHILDREN
TITLE : YOUR PUBLIC LANDS
TITLE : YOUTH (YEAR)

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Microform periodical usage was recorded daily on a tally sheet by student assistants who shelved reels used that day, and the total was compiled each month. Interlibrary loan usage data was compiled by the ILL student assistant from records retained in the ILL department. The reference student assistant who photocopied articles for the two correctional programs compiled usage data as photocopy requests were processed. The investigator gathered bound volume data bi-monthly by counting and removing dots from tagged volumes.

Data Analysis

All data was compiled and analyzed by the investigator at the conclusion of the study period. Data gathered from the counting process was compiled by computer using PFS: FIRST CHOICE's spreadsheet and graph functions. Three spreadsheets, Appendices A-C, were developed to represent the library's periodicals collection, current subscription titles, and titles indexed by INFOTRAC. Usage data was recorded for each title by component in two-month increments. Current titles were tagged with a *, retrospective (dead) titles were tagged with a -, Reserve titles (current subscription titles) were tagged with a ^, and microform titles (both current subscription titles and retrospective) were tagged with a +. Four graphs were derived from three spreadsheets, Figures 1-4, which

illustrates the components of usage (reserve, current issues, ILL, etc) for the academic year. Three grouped frequency tables, Tables 1-3, were developed to divide the three types of usage at intervals and document the number of periodicals used in relation to frequency of use, non-use, and ranking. The inertia of the collection was identified by generating a list of current titles without recorded usage in Table 4. The 490 titles used during the study period are ranked by quantity of use in Table 5.

Work Plan

The mechanics of conducting usage investigations was viewed by some researchers as labor intensive with practical and conceptual obstacles. Once routines outlined in the data collection section were established the counting process flowed smoothly. Delays in shelving did not occur because the sweep method for tagging bound volumes was fast and recording loose issues usage in the tally sheets only required a few seconds per title. Bound volume data were gathered bi-monthly. Reserve and microform statistics were compiled monthly, and converted to bi-monthly totals. The ILL and reference student assistants recorded their usage statistics and returned their tally sheets to the investigator at the conclusion of the study period. Usage data were added to the collection spreadsheet as the two-month increments passed. Eckman recommended long study

periods for gathering data because the data would provide a clearer picture of usage extremes (too few or too many), and biases inherent in short term usage studies are corrected.[41] The compilation of data for this investigation was a continuous process over two 15 week periods: September 1989 through May 1990.

CHAPTER IV

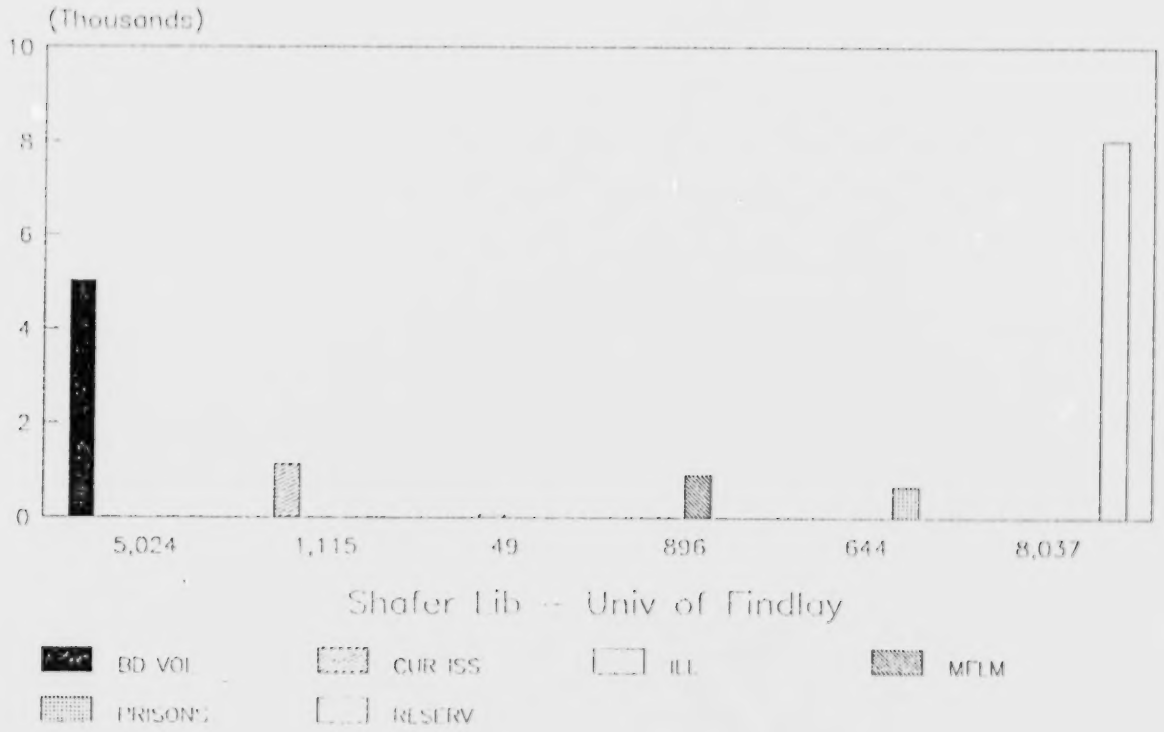
RESULTS

Data analysis revealed that patron usage of the periodicals collection hovered at just over 50%, with 490 titles used 15,764 times. The data represent a collection of 928 current and retrospective microform and paper periodical titles. The total does not include newspapers, newsletters, reference periodical titles, and serials cataloged into the LC Collection. The Periodicals Collection Spreadsheet, Appendix A, details usage per title per semester per component. Figure 2 documents collection usage totals per component for the periodicals collection. Table 1 documents the rate of usage and non-usage for the collection by grouping usage in units of 10. Of the 928 titles held in the collection, 438 titles, or 47% of the periodicals collection, were not used. Titles used 1 to 10 times totaled 319 and accounted for 34% of the titles held. Titles used 11 times or more totaled 171 and accounted for 19% of the titles held. These data confirm previous studies which reported that the majority of titles used were consulted infrequently.[42]

The library subscribed to 564 current titles during the 1989/90 academic year. Patron usage of current subscription titles jumped substantially to 77%. Of the 564 current subscription titles held in the collection, 435 titles were

Fig 2--PERIODICALS USAGE DATA

COLLECTION USAGE TOTALS



Compiled Fall Sem 1989 -- Spr Sem 1990

TABLE 1

PERIODICALS COLLECTION GROUPED FREQUENCY TABLE

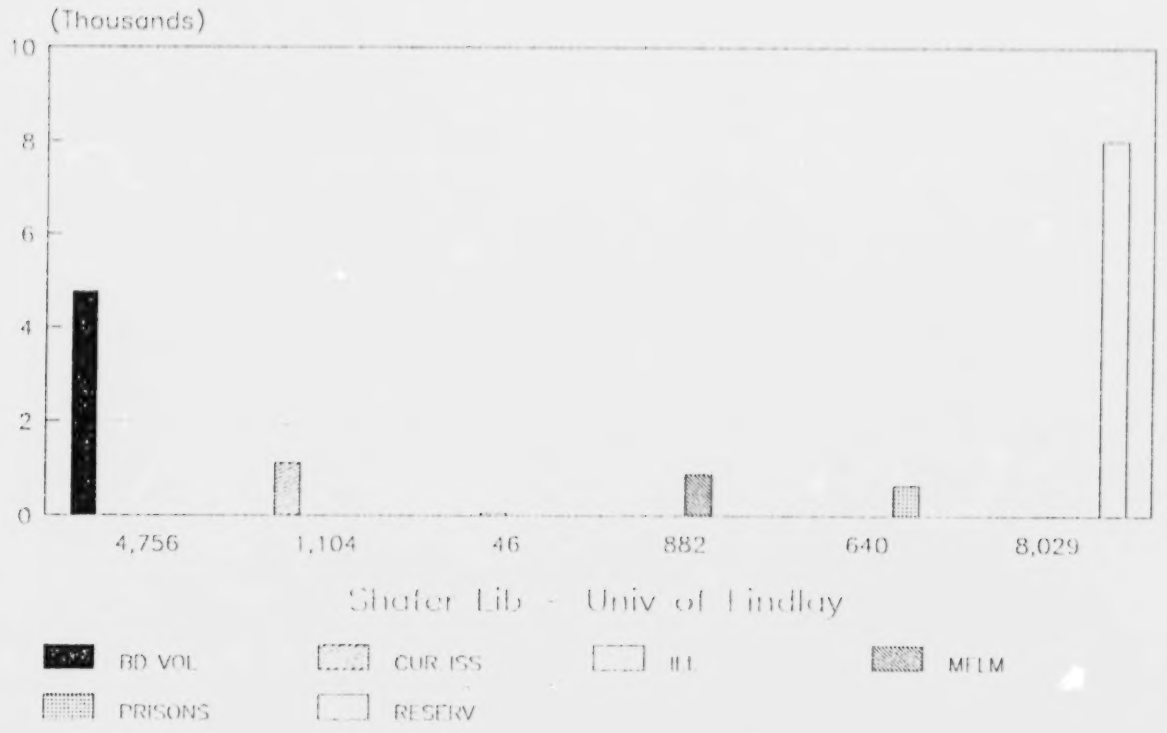
Number of titles within usage range	Recorded number of uses	Rank
39	81	1
3	71-80	2
7	61-70	3
10	51-60	4
11	41-50	5
19	31-40	6
28	21-30	7
54	11-20	8
319	1-10	9
438	0	10

used 15,457 times. The Current Subscription Titles Spreadsheet, Appendix B, details usage per title per semester by components; and the Current Subscription Titles Usage Graph, Figure 3, illustrates component totals. Table 2 documents the rate of usage and non-usage for current subscription titles by grouping usage in units of 10. Of the 564 current subscription titles, 130 were not used and accounted for 23% of the titles held. Titles used 1 to 10 times totaled 269 and accounted for 48% of the current subscription titles held. Titles used 81 times or more totaled 165 and accounted for 29% of the current titles held. Again the data confirms previous studies which reported that the majority of titles used were consulted infrequently.

A third spreadsheet details usage of titles indexed by a CD-Rom index, Appendix C: Titles Indexed by INFOTRAC. Usage is recorded per title per semester by components, with 14,196 recorded uses for the academic year. Of the 928 titles held in the periodicals collection, 237 were indexed and 223 titles were used. Of the library's 564 current subscription titles, 42% were indexed by INFOTRAC which accounted for 90% of the academic year's usage. Figure 4 documents total usage per component for titles indexed by INFOTRAC. Table 3 documents the rate of usage and non-usage for titles indexed by INFOTRAC by grouping usage in units of 10. Of the 237 indexed titles, 14 titles were not used and

Fig 3--PERIODICALS USAGE DATA

CURRENT SUBSCRIPTION TITLES USAGE



Compiled Fall Sem 1989 -- Spr Sem 1990

Fig 4--PERIODICALS USAGE DATA

TITLES INDEXED BY INFOTRAC

Compiled Fall Term 1979 -- Spr Term 1980

TABLE 2
Current Subscription Titles Grouped Frequency Table.

Number of titles within usage range	Recorded number of uses	Rank
39	81-	1
3	71-80	2
7	61-70	3
8	51-60	4
11	41-50	5
19	31-40	6
27	21-30	7
51	11-20	8
269	1-10	9
130	0	10

TABLE 3
Titles Indexed by INFOTRAC Grouped Frequency Table.

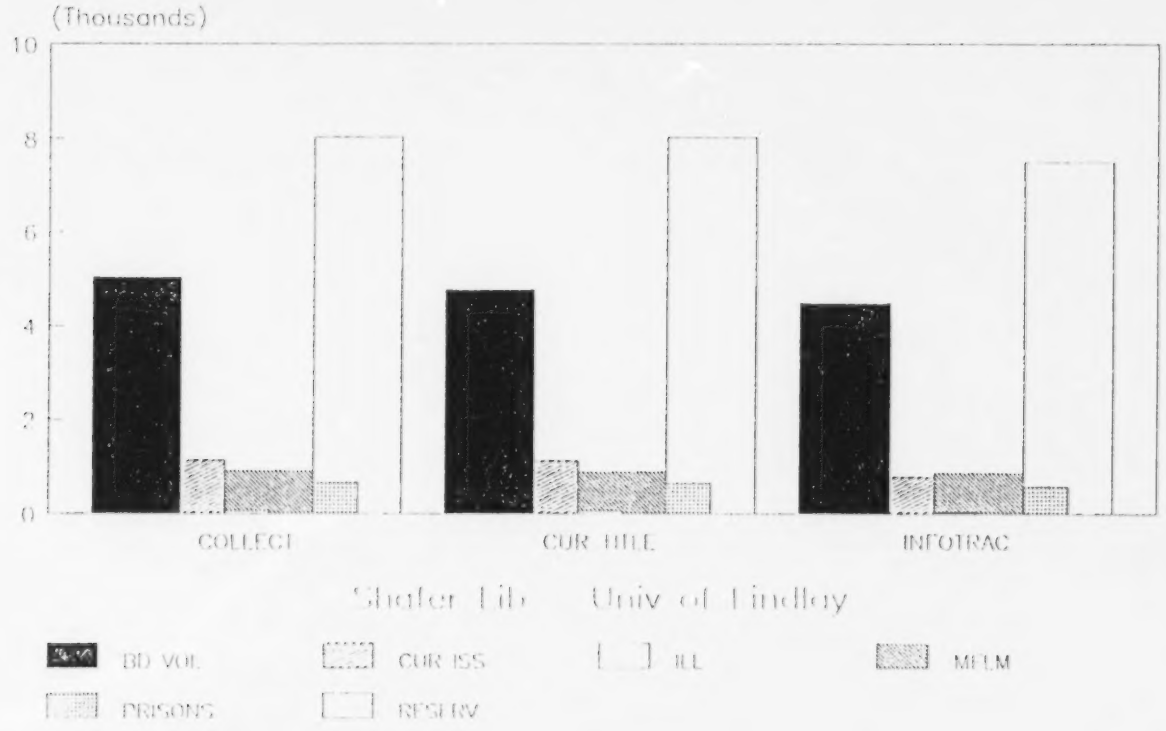
Number of titles within usage range	Recorded number of uses	Rank
38	81-	1
3	71-80	2
5	61-70	3
8	51-60	4
9	41-50	5
15	31-40	6
23	21-30	7
34	11-20	8
88	1-10	9
14	0	10

accounted for 6% of the titles held. Titles used 1 to 10 times totaled 88 and accounted for 37% of the titles indexed. Titles used 11 times or more totaled 135 and accounted for 57% of the titles indexed. The data in this case does not agree with the assumption that the majority of titles used were consulted infrequently. If one considers 11 or more uses per title as frequent usage, then 135 titles or 57% of the titles indexed were used. The data indicates that the majority of titles indexed by INFOTRAC received frequent usage.

The academic year collection component totals, illustrated in Figure 2, documents collection usage. Patron usage of the Bound Volumes and Reserve components dominate with 5,024 and 8,037 uses respectively. The Reserve component total represents current issues as well as a two year backrun. The Current Issues component totaled 1,115 uses, but this number does not include ILL, Prison, and Reserve current issues. The Microforms component totaled 896 uses and represents both current subscription and retrospective titles. The Prison component totaled 644 uses which clearly justified hiring a student assistant to handle this responsibility. The Interlibrary Loan component (ILL) totaled 49 periodical uses for the academic year. Figure 5 compares usage by components for the periodicals collection, current subscription titles, and titles indexed by INFOTRAC. The 15,674 recorded uses averaged 10.46 uses per student

Fig 5--PERIODICALS USAGE DATA

COLLECTION - CURRENT TITLES - INFOTRAC



Compiled Fall Sem 1989 Spr Sem 1990

35

attending the University that academic year. The library's 1989/90 periodicals budget was approximately thirty-eight thousand dollars and the average cost per use was two dollars and forty-two cents.

CHAPTER V

SUMMARY AND CONCLUSIONS

The data compiled during this investigation are valuable to Shafer Library and the library community because patterns of usage are clearly identified. The data confirm that Trueswell's 80/20 Rule also holds true for a small academic library. Patron usage of the collection totals 15,764, or usage is recorded for 53% of the titles held. Of the 490 titles used, 98 titles comprise the top 20%. These 98 titles account for 13,492 uses, or 85% of what is used. The 53% usage rate for the periodicals collection seems low but may be due to several factors: 1) prior title changes (sometimes back and forth five times before the current title is established) inflate the total number of titles in a collection; 2) Shafer Library purchased numerous microform science fiction titles which again inflate the total number of titles; 3) the lack of automated in-depth CD-Rom indexing for older titles discourages use; and 4) older titles are not consulted for current research.

The usage rate for current subscription titles clearly illustrates Shafer Library's ability to provide its patron group with materials and reflects a moderately successful

collection development policy. Of the library's 564 active subscription titles 77% are used, but this percentage would be higher if the data collection methodology had been more accurate. Two flaws in data collection prohibit an accurate total for the Current Issues component. The 1,115 recorded uses do not reflect the true quantity of current issue usage or the number of titles used. First, the investigator could not observe what titles are used in the Current Reading Room because they are shelved on another floor. The investigator had to rely on counting issues returned to the Circulation Desk. The number of issues or titles returned to their slot on the shelf by conscientious readers can not be guessed. Second, the ILL, Prison, and Reserve components do not differentiate between current issues and bound volumes. As a consequence, the number of current issues used in the three components is unknown. The inclusion of these missing data would have improved usage recorded in the Current Issues component. The 77% usage rate falls short of Millson-Martula's ideal 95% usage rate for a core periodical collection; but for an initial study a 77% usage rate indicates that three-fourths of the current titles are used. A list of current subscription titles without recorded usage, Table 4, was compiled for consultation in the future when needed. The current subscription data confirm that Shafer Library's collection development policy is working to improve patron usage of the periodicals collection. The

TABLE 4

CURRENT SUBSCRIPTION TITLES WITHOUT RECORDED USAGE

Shafer Library - University of Findlay [1]

ACM Transactions on Computer Systems
ACM Transactions on Database Systems
ACM Transactions on Graphics
ACM Transactions on Mathematical Software
ACM Trans on Programming Languages & Systems
Academy of Political Science Proceedings
African Arts
Agricultural Outlook
American Journal of Botany
American Journal of Physics
American Mathematical Monthly
American Naturalist
Antioch Review
Arts Review
C R S Review
California Management Review
Career Development Quarterly
China Quarterly
Church Advocate
Classroom Computer Learning
College Mathematics Journal
Community Mental Health Journal
Comparative Education Review
Compendium on Cont Ed for the Practicing Vet
Computing Surveys
Contemporary Education
Contemporary Literature
Daughters of the American Revolution
Dramatics
Echoes
Economic Review Dallas
Economic Review Richmond
Economic Review San Francisco
Educational Psychologist
Educational Record
Education Technology Research & Development
Endangered Species Technical Bulletin
English Education
English Teaching Forum
Exercise Exchange
Family Economics Review
Fire Engineering
Freeman, Ideas on Liberty
Freshman English News
Futures Research Quarterly
G A O Journal
Griffith Observer
Hispanic American Historical Review
Historian
Humanities
Industrial & Labor Relations Review
INFOAAU
Intergovernmental Perspectives
Internal Auditor
International Philosophical Quarterly
Journal for the Scientific Study of Religion
Journal of Applied Gerontology
Journal of Biological Education
Journal of Chemical Education
Journal of Contemporary Ethnography
Journal of Economic History
Journal of Education for Business
Journal of Experimental Child Psychology
Journal of Experimental Education
Journal of Exp Psy: Human Perception & Performance
Journal of Heredity
Journal of Humanistic Psychology
Journal of Interdisciplinary History
Journal of Modern African Studies
Journal of Modern History
Journal of Negro History
Journal of Philosophy
Journal of Res of the Natl Inst of Standards & Technology
Journal of Retail Banking
Journal of Retailing
Journal of Southern History
Journal of Systems Management
Journal of Technical Writing & Communication
Journal of the American Chemical Society
Journal of the Assoc for Computing Machinery
Journal of the Experimental Analysis of Behavior
Marathon World
Measurement and Evaluation in Counseling & Development
Mexican Studies/Estudios Mexicanos
Modern Age
Monthly Energy Review
Musical America
N A S A Tech Briefs
N C A Quarterly
Ohio Speech Journal
Old Northwest
Opera News
P S
Pacific Philosophical Quarterly
Philosophical Review
Philosophy & Phenomenological Research
Photomethods
Phylon
Physics Teacher
Policy Studies Journal
Policy Studies Review
Polish Perspectives
Population Trends & Public Policy
Quarterly Review New York
Quarterly Review of Biology
Queen City Heritage
Quest
Referee
Resources (Washington)
Resources in Education
Review. St. Louis
Review of Education Research
Review of Metaphysics

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[1] Data compiled September 1989 through May 1990.

Revista Del Institute de Cultura
Puertorriquena
Rural Development Perspectives
Russian Review
Selecciones del Reader's Digest
Seminars in Nuclear Medicine
Social Biology
Social Security Bulletin
SOI Bulletin. Statistics of Income
Soundings
State
Supervisory Management
Teachers College Record
Teaching Exceptional Children
Urban Affairs Quarterly
World Today
Yelmo

library's collection development decisions made in the future should target policies designed to further improve collection usage.

Patron usage of the library's current subscription titles also confirmed Trueswell's 80/20 Rule. Of the 564 current subscription titles held, 434 titles were used during the investigation and 130 titles were not used at all. Of these 434 titles, 87 titles (20%) account for 13,139 uses (85%) of the current subscription titles usage total for the academic year.

The library's CD-Rom Index, INFOTRAC, did affect how the collection was used. The Titles Indexed by INFOTRAC Spreadsheet, Appendix A, details usage by title per semester per component. Of the library's 564 current subscription titles, 237 were indexed by INFOTRAC. Of these 237 titles only 14 titles (or 6%) were not used. The data indicate that retrospective indexing by CD-Rom products encourages the use of older active and dead titles. Science Digest ceased with its September 1986 issue, but was used 51 times during the fall semester because it was indexed on INFOTRAC. Six other dead titles were indexed by INFOTRAC and totaled 114 uses: Center Magazine, Department of State Bulletin, Modern Photography, New Statesman, Saturday Review, and Social Casework. This phenomenon would not have occurred if paper indexes were solely relied upon by the library's patron group. Paper indexes are cumbersome to use and

patrons may not take the time required to scan several years of indexes. Trueswell's 80/20 Rule also held true for titles indexed by INFOTRAC. The top 20%, or 47 titles, totaled 11,173 uses or 78% of the titles indexed by INFOTRAC.

This investigator concurs with Eckman's opinion that a longer investigation period is necessary to produce an accurate picture of periodical usage. Conducting a two-semester investigation recorded fluctuations in usage due to course offerings. A one-semester investigation would have resulted in lopsided data. The investigator regrets that the time required to conduct a two-year study was not available. The results of such a study would take into account the two-year cycle for alternating special courses which is common practice at most universities.

Three patterns of usage identified in the literature review cannot be applied to this investigation because they were not part of its goals. Researchers documented that: 1) shelving factors influenced usage; 2) photocopying increased with the age of the title; and 3) usage varied from one library to another in a multi-library system. Shelving factors did influence how data were gathered, but not how usage occurred. Today everybody photocopies everything so what was photocopied was not of importance. A multi-library system does not exist at the University of Findlay.

An obvious difference between data garnered from this investigation compared to data associated with research, science, technology, or special libraries is the lack of scientific titles used at all. Only 10% of the 98 top ranked titles dealt with the sciences. Of the top 98 titles, four broad-spectrum science titles (Science News, Science, Scientific American, and Science Digest) and six specialized science titles (Environment, Astronomy, Sky & Telescope, Hazardous Waste Management, Hazmat World, and Bulletin of the Atomic Scientists) ranked in the top 20%. The ranked list of periodicals, Table 5, revealed that general topic magazines (Newsweek, Time, etc.), business (Business Week), education (Chronicle of Higher Education), religion (Christianity Today), psychology (Psychology Today), political science (National Review), and sociology (Social Work) titles dominate. Analytical Chemistry was used one time, and Journal of the American Chemical Society was not used during the 1989/90 academic year.

Not all patterns of usage identified in the literature for research, science, technology, or special libraries were confirmed for small liberal arts libraries. Subjects do affect the use of science and liberal arts libraries but other factors may play a stronger roll. The cyclical nature of course offerings in a small liberal arts university exerts a stronger influence on what is used than do subjects. An English seminar explored literature about

TABLE 5

RANKED LIST OF PERIODICALS BY FREQUENCY OF USE

Shafer Library - University of Findlay [2]

1390	Newsweek
1305	Time
959	US News & World Report
580	Parents
549	Business Week
472	Sports Illustrated
355	People Weekly
334	Science News
287	Rolling Stone
278	Fortune
275	Maclean's
267	Economist
240	Psychology Today
235	USA Today
229	Chronicle of Higher Education
210	National Review
208	Life
196	New Republic
181	Publisher's Weekly
168	Reader's Digest
165	Advertising Age
157	Nation
139	Education Digest
128	Science
125	Christianity Today
123	Christian Century
121	Phi Delta Kappan
112	National Geographic
108	Discover
107	Ms.
106	Health
104	Forbes
103	Library Journal
96	Environment
93	Scientific American
84	Consumer Reports
84	Ebony
82	Jet
81	Astronomy
76	Sky & Telescope
76	Society
72	Art News
68	Hazardous Waste Management
67	America
66	Quarter Horse Journal
64	Broadcasting
64	Omni
62	New Yorker
61	Wilson Library Bulletin
58	Harper's
57	Booklist
57	Harvard Business Review
56	New Statesman
54	Clearing House
54	Instructor
53	Hazmat World
51	Art in America
51	Science Digest
51	Vital Speeches of the Day
50	Atlantic
50	Money
48	Changing Times
47	Futurist
47	Nation's Business
47	World Press Review
46	Commonweal
45	Congressional Quarterly Weekly Rpt
45	Social Work
43	Mademoiselle
42	Technology Review
40	Educational Leadership
39	Esquire
39	Jnl of Consulting & Clinical Psychology
39	Reading Teacher
38	Children Today
38	Humanist
38	Progressive
38	TESOL Quarterly
37	Audubon
36	American Psychologist
35	Choice
35	Journal of Reading
35	Scholastic Coach
34	Good Housekeeping
34	Jnl of Personality & Social Psy
34	Social Problems
32	Datamation
31	Byte
30	Jnl of Marriage & the Family
29	Car & Driver
29	Monthly Labor Review
28	American Sociological Review
28	Bulletin of the Atomic Scientists
28	Department of State Bulletin
26	Child Welfare
26	Journal of Academic Librarianship
26	Natural History
26	School Library Journal
25	Artforum
25	Jnl of Physical Ed, Rec & Dance
24	American Artist
24	Child Development
24	Current History
23	English Journal
23	Gerontologist
23	Journal of Abnormal Psychology
23	Social Forces
23	Wilderness
22	American Heritage
22	Arithmetic Teacher
22	OCLC Micro
22	Physical Educator
21	Congressional Digest
21	Journal of School Health

[2] Data compiled September 1989 through May 1990.

21 Smithsonian
21 Woman's Sports & Fitness

20 National Wildlife
20 Paint Horse Journal
20 Personnel
19 Foreign Affairs
19 Journal of Counseling & Develop
19 Journal of Marketing
19 Prevention
19 Techtrends
18 Business Month
18 Field & Stream
17 Analog Science Fiction/Sci Fact
17 Black Enterprise
17 Hastings Center Report
17 Journal of Communication
17 New Statesman & Society
17 Psychological Reports
17 Public Health Reports
16 Equus
16 Public Opinion Quarterly
16 Social Policy
16 Washington Monthly
15 Ceramics Monthly
15 Science (yr)
15 Science Books & Films
15 Social Casework
15 World Marxist Review
14 American Behavioral Scientist
14 International Wildlife
14 Journal of Learning Disabilities
14 Journal of Popular Culture
14 Media & Methods
14 New York Review of Books
14 U N Chronicle
13 Art International
13 Bioscience
13 Change
13 Language Arts
13 Modern Language Journal
13 NASSP Bulletin
13 Physician & Sports Medicine
12 Black Collegian
12 Sociology & Social Research
11 American Journal of Sociology
11 Annals of the Am Soc of Polit & Social Science
11 Arts & Activities
11 Challenge
11 Current
11 Film Comment
11 Foreign Policy
11 Instructor & Teacher
11 Journal of Advertising Research
11 Journal of Marketing Research
11 Problems of Communism
11 Scholastic Update

10 American Anthropologist
10 American Economic Review
10 Downbeat
10 Industry Week
10 Journalism Quarterly
10 Office
10 Psychological Bulletin
10 Saturday Review

9 American Historical Review
9 American Journal of Psychology
9 American Scholar
9 Americas
9 Arts Magazine
9 History Today
9 Jnl of Educational Psychology
9 Jnl of Popular Film & Television
9 Science Teacher
9 Theatre Crafts

8 American Political Science Review
8 American School and University
8 Animal's Agenda
8 Atlantic Monthly
8 Creative Computing
8 Current Anthropology
8 Encounter
8 Exceptional Children
8 Horn Book Magazine
8 Horseman
8 Journal of American History
8 Modern Fiction Studies

7 American Literature
7 Business Education Forum
7 College English
7 Communication Education
7 Developmental Psychology
7 Ethics
7 Explicator
7 FDA Consumer
7 Physics Today
7 Psychological Review
7 Sciences, The
7 Thrust
7 Twentieth Century Literature
7 Veterinary Medicine
7 Water/Engineering Management
7 Writer

6 American School Board Journal
6 American Scientist
6 Black Scholar
6 Childhood Education
6 Educational Technology
6 Feminist Studies
6 Harper's Magazine
6 Hudson Review
6 Human Relations
6 Journal of Social Psychology
6 Jnl of the Am Vet Medical Assoc
6 Mathematics Teacher
6 National Geographic World
6 Ohio High School Athlete
6 Social Education
6 Southern Horseman
6 UNESCO Courier
6 World Health

5 AVC Presentation, Tech & Applications
5 American Midland Naturalist
5 Appaloosa Journal
5 Christianity & Crisis
5 Daedalus
5 E P A Journal
5 Educational & Psychological Measurement
5 Elementary School Journal
5 Essays in Criticism
5 Federal Reserve Bulletin
5 Health Education
5 Hispania
5 International Affairs
5 Journal of Applied Psychology
5 Journal of Social Issues
5 Journal of Teacher Education
5 Language

BEST COPY AVAILABLE

5	Management Accounting
5	Mathematics Magazine
5	New American
5	Olympian
5	Parks & Recreation
5	Political Science Quarterly
5	Senior Scholastic
5	World's Work
4	Academe
4	Accounting Review
4	Administrative Management
4	Archeology
4	Center Magazine
4	College Composition & Communication
4	Courier (UNESCO)
4	Crisis
4	Ecology
4	Educational Theory
4	Film Quarterly
4	Foreign Language Annals
4	Frank Leslie's Popular Monthly
4	Journal of Accountancy
4	Journal of Counseling Psychology
4	Management Review
4	New Directions for Higher Ed
4	Ohio History
4	Omega
4	Popular Photography
4	School Science and Mathematics
4	Sea Frontiers
4	Social Research
4	Social Studies
4	Studio Potter
4	Survey of Current Business
4	Technical Communication
4	Western Horseman
3	Academic Computing
3	American Quarterly
3	American Speech
3	Animal Behavior
3	Athletic Journal
3	Bilingual Review
3	Business America
3	Communication Arts
3	Communications of the ACM
3	Computers & People
3	Crime & Delinquency
3	Criminology
3	Electronic Learning
3	Extrapolation
3	Family Planning Perspectives
3	Forces
3	Forum
3	High School Journal
3	Human Organization
3	Inquiry
3	Jnl of College Student Personnel
3	Journal of Economic Perspectives
3	Journal of Education
3	Journal of Educational Research
3	Journal of Higher Education
3	Journal of Personality
3	Journal of Religion
3	Journal of Social History
3	Journal of the History of Ideas
3	Management Solutions
3	N A S P A Journal
3	New England Economic Review
3	19th Century Literature
3	Pacific Affairs
3	Poetry
3	Principal
3	Public Welfare
3	Reading Research Quarterly
3	Shakespeare Quarterly
3	Social Service Review
3	Soviet Life
3	Soviet Sports Review
3	Studies in Philology
2	Art Education
2	Business Conditions Digest
2	Church History
2	Coaching Clinic
2	Communication Monographs
2	Comparative Studies in Society & History
2	Critique
2	Dissent
2	FBI Law Enforcement Bulletin
2	Federal Probation
2	High Fidelity/Musical America Edition
2	History Teacher
2	Human Behavior
2	Internatl Jnl of Politics, Culture, & Soc
2	Jnl for Research in Mathematics Eduction
2	Journal of African History
2	Journal of Applied Behavioral Science
2	Journal of Asian Studies
2	Journal of Business
2	Journal of Creative Behavior
2	Journal of Economic Education
2	Jnl of Exp Psy:Learning,Memory,& Cognition
2	Journal of General Education
2	Journal of Geography
2	Journal of Special Education
2	Journal of Sport History
2	Journal of State Government
2	Jnl of the American Academy of Religion
2	Jnl of the Optical Society of America
2	Learning
2	Liberal Education
2	Living Wilderness
2	Look
2	Magazine of Fantasy & Science Fiction
2	Mercury
2	Mind
2	New Literary History
2	New York Theatre Critics' Reviews
2	Northwest Ohio Quarterly
2	Occupational Outlook Quarterly
2	Ohio
2	Ohio Journal of Science
2	Outlook
2	Perceptual & Motor Skills
2	Personnel Psychology
2	Pollution Engineer
2	Public Administration Review
2	Research in the Teaching of Eng
2	School Arts
2	Science & Children
2	Sociology of Education
2	Taxes; The Tax Magazine
2	Waste Age
2	William & Mary Quarterly
2	Wilson Bulletin
2	World Politics
2	Young Children
1	A B A Banking Journal
1	Administrative Science Quarterly
1	Aging
1	Alcohol Health & Research World

1 Alternatives
1 American Biology Teacher
1 American Craft
1 American Journal of Education
1 American Rehabilitation
1 American Secondary Education
1 American Sociologist
1 American Teacher
1 Amicus Journal
1 Analytical Chemistry
1 Audio-Visual Communications
1 Aztlan
1 Black American Literature Forum
1 Business & Society Review
1 Business Horizons
1 Business Review (Philadelphia)
1 Ceramic Review
1 Cithara
1 Cities & Villages
1 Clavier
1 College Teaching
1 Commentary
1 Community, Technical & Jr Coll Jnl
1 Contemporary Psychology
1 Earth Science
1 Economic Indicators
1 Economic Perspectives (Chicago)
1 Economic Review (Atlanta)
1 Economic Review (Kansas City)
1 Education, Communication & Tech J
1 Ethnology
1 Finance & Development
1 Focus (Am Geographical Society)
1 Freedomways
1 Graduate Woman
1 Harvard Education Review
1 Hispanic Review
1 Independent Banker
1 Instructional Innovator
1 Instrumentalist
1 International Jnl of Sport Psychology
1 Journal of Accounting, Auditing, & Finance
1 Journal of Accounting Research
1 Journal of Animal Science
1 Journal of College Student Development
1 Journal of Economic Issues
1 Journal of Experimental Psychology
1 Jnl of Experimental Psychology: Animal
1 Jnl of Experimental Psychology: General
1 Journal of Finance
1 Journal of General Psychology
1 Journal of Latin American Studies
1 Journal of Organic Chemistry
1 Journal of Transpersonal Psychology
1 Law & Contemporary Problems
1 Learning Disabilities Quarterly
1 Marriage and Family Living
1 Middle East Journal
1 Middle School Journal
1 Midwest Quarterly
1 Modern Language Review
1 Modern Photography
1 Monist
1 Mosaic
1 Music Educators Journal
1 Music Journal
1 New Perspectives Quarterly
1 Novel
1 Nuestro
1 Ohio Monitor
1 Ohio Schools
1 P M L A
1 Pacific Historical Review
1 Personnel Management
1 Philosophy
1 Population Bulletin
1 Practical Accountant
1 Quarterly Journal of Speech
1 Ramparts
1 Religious Education
1 Research Quarterly
1 Research Qtrly for Exercise & Sport
1 Rotarian
1 Rural Society
1 Saturday Review/World
1 Science Education
1 Sharing the Victory
1 Signs
1 Soil & Water Conservation News
1 T.H.E. Journal
1 Taxation for Accountants
1 Theory into Practice
1 Timeline
1 Today's Education
1 Today's Health
1 Urban Education
1 Victorian Studies
1 Woman CPA
1 Yale Review

nature and the environment. In this case, an English class explored a subject which, on the surface, was not related to literature. Multi-disciplinary courses will also diffuse subject usage of the collection.

In research libraries newer issues circulate more than retrospective titles do. Even though the Current Issues component total does not reflect the true usage of all current issues; bound volume data out numbered current issues data by five to one. The data indicate that usage of older materials is equal to or more than usage of current issues for liberal arts libraries.

Veenstra and Wright's 1988 study concluded that periodical usage in research libraries declined as collections grew larger. This investigator believes that retrospective usage is more extensive in liberal arts libraries due to the value of historical research. Bound-volume usage (5,024) at Shafer library by far outnumbered that of current issues (1,115). The Microform component total (896) is composed totally of backrun volumes. Data from the Bound Volume and Microform components indicate that a liberal arts library will receive more use as the collection grows rather than inverse usage documented in research libraries.

Usage does increase with the availability of indexing in research, science, technology, special libraries and liberal arts libraries. This investigator analyzed Reserve

data which preceded this investigation (not included in this study) and a substantial increase in usage of the Reserve collection occurred after INFOTRAC was installed. In the future, as collections are built around CD-Rom indexes, retrospective and current issue usage of those collections will increase. INFOTRAC indexed 42% of Shafer Library's current subscription titles and, as the number of titles indexed grows, patron usage of the collection should grow as well. As the number of CD-Rom indexes marketed continues to increase, especially retrospective indexes, liberal arts libraries should see an increase in the rate of usage for library collections. Further investigation addressing how CD-Rom indexes impact current and retrospective collections deserves attention in the future.

Gordon's study identified the following patterns of periodical usage in a small liberal arts library: 1) general and social science titles are used more than humanities titles; 2) specialized bibliographic instruction offered to select groups increased usage of a collection; 3) foreign language titles received limited use regardless of the discipline; and 4) retrospective titles received more use than current issues because of indexing and abstracting publications.

Usage patterns established at Shafer Library agree with the general titles statement. But at the University of Findlay, freshman and sophomore English classes and speech

classes rely extensively on general reading titles to satisfy assignments. The extent of general title usage is due in part to humanities assignments; therefore, in this case general titles should also be considered humanities titles. The number of humanities titles increased by including the general titles, but the social science titles still outnumbered humanities titles used. The lower number of titles used in the humanities may correlate with the smaller number of students who major in the humanities. At the University of Findlay, the number of divisions assigned to the Social Sciences is nine and three divisions compose the Humanities Department; consequently, more titles will be purchased to support the social sciences than humanities and usage will follow the same trends.

Investigators have amply documented the phenomenon that bibliographic instruction improves collection usage. The University of Findlay requires all freshman to attend bibliographic instruction classes during their first year of attendance, and specialized bibliographic instruction classes are also taught. The majority of students attending the University of Findlay should be library literate. The philosophy behind bibliographic instruction has broadened over the past ten years. Academic libraries now concentrate on providing bibliographic instruction to all students, not just select groups, which was the case in Gordon's study. Gordon's bibliographic instruction usage pattern was not

addressed by this investigation, but the high percentage of usage for current titles concurs with his assumption.

Usage patterns also agreed with Gordon's trend that foreign language titles received limited use. The number of foreign language titles subscribed to by Shafer Library is limited and all are in Spanish. Seven multicultural titles were used during the investigation period, but only one was written in Spanish. This investigation was not concerned with usage of foreign language titles because its scope was too narrow.

INFOTRAC data discussed previously did not support Gordon's usage pattern that retrospective collections received more usage than current issues. The Bound Volume data included dead titles and current subscription titles once they were bound. On the surface this pattern holds true for Shafer Library because the Bound Volume component outnumbered the Current Issues component five to one. This investigation did not adequately separate current usage from the Reserve, Ill and Prison components; but the data revealed that 77% of the current subscription titles are used at least once, and 237 titles indexed by INFOTRAC account for 78% of the titles used during the academic year. When one compares usage for the collection (490 of 928) to the current subscription titles (434 of 564), and then to the titles indexed by INFOTRAC (234 of 237), the percentage of usage improves from 53% to 77% to 98% respectively. The

strength of today's CD-Rom indexing is its currency factor: indexing usually occurs within months of the article's publication. Indexing schedules vary from title to title, but by providing patrons with current citations current issues will be used. The currency factor allows this year's articles to be accessed within months of their publication; therefore, as the number of titles indexed by CD-Rom products increases, usage of current issues will also increase. The phenomenon of current issue usage due to CD-Rom indexing was not addressed by this investigation, but the data suggest that substantial use of current issues by patrons occurs because of INFOTRAC.

In conclusion, the hypothesis that there is no correlation between patterns of usage identified by prior studies dealing with the sciences and patterns of usage identified in a small liberal arts library is both confirmed and rejected. The patterns of usage which are confirmed for small liberal arts libraries are: 1) Trueswell's 80/20 Rule applied to liberal arts libraries; 2) usage will increase with the availability of indexing and abstracting publications; 3) bibliographic instruction increases collection usage; 4) retrospective titles are accessed through reference materials and 5) subjects affected the use of a collection. The patterns of usage which are not confirmed for small liberal arts libraries are: 1) newer

issues circulate more than retrospective titles; and 2) periodical usage declines as collections grew larger.

Two of Gordon's patterns of periodical usage are confirmed and two patterns require updating to reflect today's small liberal arts library. General and social science titles are used more than humanities titles, and foreign language titles receive little or no use. The target group for bibliographic instruction has progressed from specialized groups to all university students; therefore, Gordon's specialized bibliographic instruction usage pattern must be updated to include general bibliographic instruction. This investigator questions the validity of Gordon's retrospective-current issue usage pattern. Ten years ago the majority of articles accessed were older issues because of the time delay required to edit and publish printed reference materials. This phenomenon is no longer true because computer assisted indexing provides access to articles within months of publication. The majority of current issues used in this investigation were indexed by a computer where data was stored on a compact disk. The data from this investigation indicate an increase in current issue usage by today's library patrons. Titles indexed by INFOTRAC account for 90% of 15,764 uses recorded for the periodicals collection. This phenomenon could not have occurred ten years ago. Patron usage of current subscription titles accounts for 77% of the 15,764 recorded

uses. This percentage is not the ideal of 95%, but as Shafer Library continues to build its collection around titles indexed by INFOTRAC, usage will only improve. The addition of INFOTRAC to the library's reference collection is proof that Shafer Library's collection development policy is concerned with improving collection usage and is working to supply its patron's perceived needs for information.

APPENDIX A

PERIODICALS COLLECTION SPREADSHEET

	1989 FALL BD VOL	1990 SPR BD VOL	1989 FALL CUR ISS	1990 SPR CUR ISS	1989 FALL ILL	1990 SPR ILL	1989 FALL MFLM	1990 SPR MFLM	1989 FALL PRI-SONS	1990 SPR PRI-SONS	1989 FALL RES-ERVE	1990 SPR RES-ERVE	1989/90 ACA YEAR TTL
*A B A BANKING JNL	1	1	0	0	0	0	0	0	0	0	0	0	2
*A V C AUDIO-VIS COM	0	0	0	5	0	0	0	0	0	0	0	0	5
-ACADEME	3	1	0	0	0	0	0	0	0	0	0	0	4
*ACADEMIC COMPUTING	0	0	0	3	0	0	0	0	0	0	0	0	3
*ACCOUNTING REVIEW	2	2	0	0	0	0	0	0	0	0	0	0	4
ADMINISTRATIVE MGMT	4	0	0	0	0	0	0	0	0	0	0	0	4
*ADMINISTRAT SCI Q	0	0	0	0	0	0	0	0	1	0	0	0	1
*+ADVERTISING AGE	4	0	0	0	0	0	26	18	0	1	47	69	165
*AGING	1	0	0	0	0	0	0	0	0	0	0	0	1
*ALCOHOL HEA & RES W	0	1	0	0	0	0	0	0	0	0	0	0	1
*ALTERNATIVES	1	0	0	0	0	0	0	0	0	0	0	0	1
*+AMERICA	23	16	1	2	0	0	8	15	0	2	0	0	67
*AMERICAN ANTHROPOL	2	3	1	0	0	0	0	0	2	2	0	0	10
*AMERICAN ARTIST	13	1	0	0	0	0	0	0	0	0	8	2	24
*AM BEHAVIORAL SCI	5	5	0	0	0	1	0	0	1	2	0	0	14
*AM BIOLOGY TEACHER	0	0	0	0	0	0	0	0	0	1	0	0	1
*+AMERICAN CRAFT	0	0	0	1	0	0	0	0	0	0	0	0	1
*AM ECONOMIC REV	6	2	1	0	0	0	0	0	0	1	0	0	10
*AMERICAN HERITAGE	14	7	1	0	0	0	0	0	0	0	0	0	22
*AM HISTORICAL REV	4	1	1	3	0	0	0	0	0	0	0	0	9
*AM JNL O EDUCATION	0	0	0	1	0	0	0	0	0	0	0	0	1
*AM JNL O PSYCHOLOGY	5	3	0	0	0	0	0	0	0	1	0	0	9
*AM JNL O SOCIOLOGY	8	1	0	0	0	0	0	0	0	2	0	0	11
*AMERICAN LITERATURE	3	2	0	0	0	2	0	0	0	0	0	0	7
*AM MIDLAND NATURAL	3	0	0	0	0	1	0	0	0	1	0	0	5
*AM POL SCI REVIEW	4	3	0	1	0	0	0	0	0	0	0	0	8
*AM PSYCHOLOGIST	10	18	2	1	0	0	0	0	1	4	0	0	36
*AM QUARTERLY	0	0	1	2	0	0	0	0	0	0	0	0	3
*AM REHABILITATION	0	1	0	0	0	0	0	0	0	0	0	0	1
*AMERICAN SCHOLAR	2	5	0	1	0	0	0	0	0	1	0	0	9
*AM SCH & UNIV	4	0	2	2	0	0	0	0	0	0	0	0	8
*AM SCH BOARD JNL	0	0	6	0	0	0	0	0	0	0	0	0	6
*AMERICAN SCIENTIST	6	0	0	0	0	0	0	0	0	0	0	0	6
*AM SECONDARY ED	0	0	1	0	0	0	0	0	0	0	0	0	1
*AM SOCIOLOGICAL REV	11	11	0	0	0	0	0	0	0	6	0	0	28
-AM SOCIOLOGIST	0	1	0	0	0	0	0	0	0	0	0	0	1
*AMERICAN SPEECH	0	0	2	1	0	0	0	0	0	0	0	0	3
-+AMERICAN TEACHER	0	0	0	0	0	0	0	1	0	0	0	0	1
*AMERICAS	6	1	0	2	0	0	0	0	0	0	0	0	9
*AMICUS JOURNAL	0	0	0	1	0	0	0	0	0	0	0	0	1
*ANALOG SCI FIC/FACT	14	0	3	0	0	0	0	0	0	0	0	0	17
*ANALYTICAL CHEM	1	0	0	0	0	0	0	0	0	0	0	0	1
-ANIMAL BEHAVIOUR	0	3	0	0	0	0	0	0	0	0	0	0	3
*ANIMALS' AGENDA	0	4	2	0	0	0	0	0	2	0	0	0	8
*ANNALS A S P & S S	11	0	0	0	0	0	0	0	0	0	0	0	11
*APPALOOSA JOURNAL	0	0	0	0	0	0	0	0	0	0	2	3	5
-ARCHOLOGY	0	4	0	0	0	0	0	0	0	0	0	0	4

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*+ARITHMETIC TEACHER	2	11	0	4	0	0	0	5	0	0	0	0	22
*ART EDUCATION	1	1	0	0	0	0	0	0	0	0	0	0	2
*ART IN AMERICA	8	2	0	0	0	0	0	0	0	0	28	13	51
*ART INTERNATIONAL	2	0	0	0	0	0	0	0	0	0	9	2	13
*ART NEWS	9	4	0	0	0	0	0	0	0	0	25	34	72
*ARTFORUM	11	8	0	6	0	0	0	0	0	0	0	0	25
*ARTS & ACTIVITIES	0	3	0	8	0	0	0	0	0	0	0	0	11
*ARTS MAGAZINE	7	1	0	1	0	0	0	0	0	0	0	0	9
*ASTRONOMY	2	1	0	0	0	0	0	0	0	0	72	6	81
-ATHLETIC JOURNAL	2	1	0	0	0	0	0	0	0	0	0	0	3
*ATLANTIC	27	7	6	10	0	0	0	0	0	0	0	0	50
-ATLANTIC MONTHLY	2	6	0	0	0	0	0	0	0	0	0	0	8
-AUDIO-VISUAL COMMUN	0	1	0	0	0	0	0	0	0	0	0	0	1
*AUDUBON	12	11	0	0	0	0	0	0	1	2	4	7	37
*AZTLAN	0	0	0	1	0	0	0	0	0	0	0	0	1
*+BILINGUAL REVIEW	2	0	0	0	0	0	0	1	0	0	0	0	3
*BIOSCIENCE	8	3	1	0	0	0	0	0	0	1	0	0	13
*BLACK AM LIT FORUM	1	0	0	0	0	0	0	0	0	0	0	0	1
*BLACK COLLEGIAN	3	0	0	0	0	0	0	0	0	0	2	7	12
*+BLACK ENTERPRISE	3	1	1	0	0	0	8	0	3	1	0	0	17
*BLACK SCHOLAR	2	0	0	0	0	0	0	0	0	4	0	0	6
*BOOKLIST	3	0	22	32	0	0	0	0	0	0	0	0	57
*BROADCASTING	55	3	2	4	0	0	0	0	0	0	0	0	64
*+BULLET ATOMIC SCI	5	13	2	3	0	0	4	0	0	1	0	0	28
*BUSINESS AMERICA	0	2	0	0	1	0	0	0	0	0	0	0	3
*BUSINESS & SOC REV	1	0	0	0	0	0	0	0	0	0	0	0	1
-BUS CONDITIONS DIG	2	0	0	0	0	0	0	0	0	0	0	0	2
*+BUSINESS ED FORUM	0	0	0	0	0	0	1	6	0	0	0	0	7
-BUSINESS HORIZONS	0	1	0	0	0	0	0	0	0	0	0	0	1
*BUSINESS MONTH	0	0	0	0	0	0	0	0	0	0	3	15	18
*BUSINESS REV (PHIL)	1	0	0	0	0	0	0	0	0	0	0	0	1
*BUSINESS WEEK	43	28	0	1	0	1	0	0	10	12	209	245	549
*+BYTE	3	0	0	0	0	0	1	1	0	3	17	6	31
*CAR AND DRIVER	4	7	5	13	0	0	0	0	0	0	0	0	29
-CENTER MAGAZINE	2	2	0	0	0	0	0	0	0	0	0	0	4
*CERAMIC REVIEW	0	0	0	0	0	0	0	0	0	0	0	1	1
*CERAMICS MONTHLY	2	2	0	0	0	0	0	0	0	0	0	11	15
*CHALLENGE	3	4	1	0	0	2	0	0	1	0	0	0	11
*CHANGE	3	3	0	0	0	1	0	0	0	0	1	5	13
*+CHANGING TIMES	12	6	4	1	0	0	18	5	2	0	0	0	48
*CHILD DEVELOPMENT	8	14	0	1	0	0	0	0	0	1	0	0	24
*CHILD WELFARE	5	18	0	2	0	0	0	0	0	1	0	0	26
*CHILDHOOD EDUCATION	0	4	2	0	0	0	0	0	0	0	0	0	6
*+CHILDREN TODAY	6	10	0	4	0	0	14	3	0	1	0	0	38
*CHOICE	5	2	12	16	0	0	0	0	0	0	0	0	35
*+CHRISTIAN CENTURY	28	23	7	4	0	0	28	28	0	5	0	0	123
*CHRISTITY & CRISIS	3	1	1	0	0	0	0	0	0	0	0	0	5
*+CHRISTIANITY TODAY	14	22	6	9	0	0	40	31	1	2	0	0	125
*+CHRONICLE OF HI ED	0	0	85	67	0	0	39	38	0	0	0	0	229
*CHURCH HISTORY	1	1	0	0	0	0	0	0	0	0	0	0	2

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*CITHARA	0	0	0	1	0	0	0	0	0	0	0	0	1
*CITIES & VILLAGES	0	0	1	0	0	0	0	0	0	0	0	0	1
-CLAVIER	0	1	0	0	0	0	0	0	0	0	0	0	1
*CLEARING HOUSE	37	9	0	0	0	0	0	0	0	0	1	7	54
*COACHING CLINIC	0	0	0	0	0	0	0	0	0	0	2	0	2
*COLL COMP & COMMUN	3	1	0	0	0	0	0	0	0	0	0	0	4
*+COLLEGE ENGLISH	1	3	0	0	0	0	0	2	1	0	0	0	7
*COLLEGE TEACHING	0	0	1	0	0	0	0	0	0	0	0	0	1
-COMMENTARY	0	1	0	0	0	0	0	0	0	0	0	0	1
*COMMONWEAL	26	15	2	3	0	0	0	0	0	0	0	0	46
*COMMUNICATION ARTS	0	0	0	0	0	0	0	0	0	0	0	3	3
*COMMUNICATION ED	4	2	0	1	0	0	0	0	0	0	0	0	7
-COMMUNICATION MONOG	1	0	0	1	0	0	0	0	0	0	0	0	2
*COMM OF THE ACM	2	0	0	0	0	0	0	0	0	1	0	0	3
*COMMTY TECH JR C J	0	1	0	0	0	0	0	0	0	0	0	0	1
*COMPAR ST SOC & HIS	1	1	0	0	0	0	0	0	0	0	0	0	2
*COMPUTERS & PEOPLE	3	0	0	0	0	0	0	0	0	0	0	0	3
*CONGRESSION DIGEST	1	6	0	0	0	0	0	0	1	0	13	0	21
*CONGRESS Q WK RPT	13	25	2	2	0	0	0	0	2	1	0	0	45
*+CONSUMER REPORTS	1	0	0	0	0	0	6	14	0	1	42	20	84
*CONTEMPORY PSY	0	0	0	1	0	0	0	0	0	0	0	0	1
-CREATIVE COMPUTING	8	0	0	0	0	0	0	0	0	0	0	0	8
*CRIME & DELINQUENCY	1	0	0	0	0	0	0	0	1	1	0	0	3
*CRIMINOLOGY	0	1	1	0	0	1	0	0	0	0	0	0	3
-COURIER (UNESCO)	2	0	0	0	1	0	0	0	1	0	0	0	4
-CRITIQUE	2	0	0	0	0	0	0	0	0	0	0	0	2
*+CRISIS	0	0	0	0	0	0	1	2	0	1	0	0	4
*CURRENT	6	4	0	0	0	0	0	0	1	0	0	0	11
*CURRENT ANTHROPOLOG	0	6	0	0	0	0	0	0	0	2	0	0	8
*CURRENT HISTORY	5	5	0	0	0	0	0	0	1	1	5	7	24
*DAEDALUS	2	0	1	2	0	0	0	0	0	0	0	0	5
*DATAMATION	23	2	2	2	0	0	0	0	2	1	0	0	32
-DEPT OF STATE BUL	23	2	2	1	0	0	0	0	0	0	0	0	28
*DEVELOPMENTAL PSY	3	2	0	0	0	0	0	0	2	0	0	0	7
*DISCOVER	10	2	0	0	0	0	0	0	8	4	42	42	108
*DISSENT	0	1	0	0	0	0	0	0	0	1	0	0	2
*+DOWNBEAT	0	0	0	1	0	0	3	5	0	1	0	0	10
*E P A JOURNAL	0	1	1	1	0	0	0	0	0	2	0	0	5
*EARTH SCIENCE	0	0	0	0	0	0	0	0	0	1	0	0	1
*+EBONY	0	0	0	0	0	0	19	8	1	4	18	34	84
*ECOLOGY	1	1	0	0	0	0	0	0	0	2	0	0	4
*ECON INDICATORS	0	0	0	1	0	0	0	0	0	0	0	0	1
*ECON PERSPECT-CHI	0	0	0	1	0	0	0	0	0	0	0	0	1
*ECON REV-ATLANTA	0	0	0	1	0	0	0	0	0	0	0	0	1
*ECON REV-KANSAS C	0	0	0	1	0	0	0	0	0	0	0	0	1
*+ECONOMIST	75	69	16	22	0	2	31	30	7	15	0	0	267
*EDUCATION DIGEST	14	7	0	0	0	0	0	0	6	2	57	53	139
*ED & PSYCH MEASURE	3	1	0	0	0	1	0	0	0	0	0	0	5
-ED COMM & TECH JNL	1	0	0	0	0	0	0	0	0	0	0	0	1
*+ED LEADERSHIP	2	3	2	3	0	0	3	27	0	0	0	0	40

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*+ED TECHNOLOGY	4	0	0	0	0	0	2	0	0	0	0	0	6
*+EDUCATIONAL THEORY	0	0	0	0	0	0	1	3	0	0	0	0	4
*ELECTRONIC LEARNING	1	0	0	0	0	0	0	0	0	0	2	0	3
*ELEMENTARY SCH JNL	2	3	0	0	0	0	0	0	0	0	0	0	5
*ENCOUNTER	3	2	0	0	0	0	0	0	0	3	0	0	8
*ENGLISH JOURNAL	14	6	1	2	0	0	0	0	0	0	0	0	23
*ENVIRONMENT	14	1	0	0	0	0	0	0	2	5	30	44	96
*EQUUS	5	5	0	0	0	0	0	0	0	0	3	3	16
*ESQUIRE	9	4	0	0	0	0	0	0	0	5	11	10	39
*ESSAYS IN CRITICISM	2	0	1	2	0	0	0	0	0	0	0	0	5
*ETHICS	2	0	1	2	0	0	0	0	1	1	0	0	7
*ETHNOLOGY	0	0	0	0	0	0	0	0	1	0	0	0	1
*+EXCEPTIONAL CHILDR	3	2	0	0	0	0	3	0	0	0	0	0	8
*EXPLICATOR	5	2	0	0	0	0	0	0	0	0	0	0	7
*EXTRAPOLATION	3	0	0	0	0	0	0	0	0	0	0	0	3
*FBI LAW ENFORCE BUL	0	0	0	0	0	0	0	0	2	0	0	0	2
*FDA CONSUMER	5	0	0	0	0	0	0	0	1	1	0	0	7
*FAMILY PLAN PERSP	0	3	0	0	0	0	0	0	0	0	0	0	3
*FEDERAL PROBATION	0	0	0	0	0	0	0	0	0	2	0	0	2
*FEDERAL RESERVE BUL	5	0	0	0	0	0	0	0	0	0	0	0	5
*FEMINIST STUDIES	3	2	0	1	0	0	0	0	0	0	0	0	6
*FIELD & STREAM	7	1	0	0	0	0	0	0	0	2	5	3	18
*FILM COMMENT	1	0	0	0	0	0	0	0	0	0	8	2	11
*FILM QUARTERLY	3	0	1	0	0	0	0	0	0	0	0	0	4
*FINANCE & DEVELOP	1	0	0	0	0	0	0	0	0	0	0	0	1
*FOCUS (AM GEOG SOC)	0	0	0	0	0	0	0	0	1	0	0	0	1
*+FORBES	15	20	6	0	0	0	23	24	13	3	0	0	104
*FORCES	2	0	0	1	0	0	0	0	0	0	0	0	3
*FOREIGN AFFAIRS	13	4	0	2	0	0	0	0	0	0	0	0	19
*FOREIGN LANG ANNALS	4	0	0	0	0	0	0	0	0	0	0	0	4
*FOREIGN POLICY	7	1	1	1	0	0	0	0	1	0	0	0	11
*FORTUNE	47	15	0	0	0	0	0	0	7	1	74	134	278
-FORUM	2	1	0	0	0	0	0	0	0	0	0	0	3
-FRANK L'S POP MCH	4	0	0	0	0	0	0	0	0	0	0	0	4
-FREEDOMWAYS	1	0	0	0	0	0	0	0	0	0	0	0	1
*+FUTURIST	7	4	0	0	0	0	15	11	4	6	0	0	47
*GERONTOLOGIST	2	5	1	10	0	0	0	0	5	0	0	0	23
*GOOD HOUSEKEEPING	2	5	0	0	0	0	0	0	0	1	13	13	34
-GRADUATE WOMAN	0	0	1	0	0	0	0	0	0	0	0	0	1
*HARPER'S	26	19	6	4	0	0	0	0	3	0	0	0	58
-HARPER'S MAGAZINE	1	5	0	0	0	0	0	0	0	0	0	0	6
*HARVARD BUS REVIEW	19	32	0	3	0	0	0	0	2	1	0	0	57
*HARVARD ED REVIEW	0	1	0	0	0	0	0	0	0	0	0	0	1
*HASTINGS CENTER RPT	2	10	2	1	0	0	0	0	2	0	0	0	17
*HAZARDOUS WAST MGMT	0	0	0	0	0	0	0	0	0	0	68	0	68
*HAZMAT WORLD	0	0	0	0	0	0	0	0	0	0	53	0	53
*HEALTH	24	9	0	0	0	0	0	0	2	2	26	43	106
*+HEALTH EDUCATION	0	0	0	1	0	1	0	3	0	0	0	0	5
-HI FID/MUSICAL AM	1	0	0	0	0	0	0	0	1	0	0	0	2
*HIGH SCHOOL JOURNAL	1	2	0	0	0	0	0	0	0	0	0	0	3

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*HISPANIA	1	1	0	3	0	0	0	0	0	0	0	0	5
*HISPANIC REVIEW	0	1	0	0	0	0	0	0	0	0	0	0	1
*HISTORY TEACHER	2	0	0	0	0	0	0	0	0	0	0	0	2
*HISTORY TODAY	4	3	1	1	0	0	0	0	0	0	0	0	9
*HORN BOOK MAGAZINE	5	3	0	0	0	0	0	0	0	0	0	0	8
-*HORSEMAN	0	0	0	0	0	0	0	0	0	0	0	8	8
*HUDSON REVIEW	5	1	0	0	0	0	0	0	0	0	0	0	6
-HUMAN BEHAVIOR	1	1	0	0	0	0	0	0	0	0	0	0	2
*HUMAN ORGANIZATION	2	1	0	0	0	0	0	0	0	0	0	0	3
*HUMAN RELATIONS	6	0	0	0	0	0	0	0	0	0	0	0	6
*+HUMANIST	6	8	2	0	0	0	8	12	0	2	0	0	38
*INDEPENDENT BANKER	0	0	0	1	0	0	0	0	0	0	0	0	1
*INDUSTRY WEEK	6	3	0	1	0	0	0	0	0	0	0	0	10
*INQUIRY	0	0	1	2	0	0	0	0	0	0	0	0	3
-INSTRUCTIONAL INNOV	1	0	0	0	0	0	0	0	0	0	0	0	1
*INSTRUCTOR	18	3	0	0	0	0	0	0	0	0	10	23	54
-INSTRUCTOR & TEACH	8	3	0	0	0	0	0	0	0	0	0	0	11
*INSTRUMENTALIST	0	0	1	0	0	0	0	0	0	0	0	0	1
*INTL AFFAIRS	3	2	0	0	0	0	0	0	0	0	0	0	5
*ITL J POL CUL & SOC	0	0	0	2	0	0	0	0	0	0	0	0	2
*INTL JNL OF SP PSY	1	0	0	0	0	0	0	0	0	0	0	0	1
*INTERNAT WILDLIFE	3	6	0	0	0	0	0	0	0	0	1	4	14
*JET	17	3	0	0	0	2	0	0	2	0	42	16	82
*JNL FOR RES MATH ED	0	1	0	0	0	1	0	0	0	0	0	0	2
*JNL OF ABNOR PSY	6	16	0	1	0	0	0	0	0	0	0	0	23
*JNL OF ACA LIBSHIP	1	0	11	13	0	1	0	0	0	0	0	0	26
*JNL OF ACCOUNTANCY	2	0	1	1	0	0	0	0	0	0	0	0	4
*JNL O AC, AUD & FIN	0	0	0	1	0	0	0	0	0	0	0	0	1
*JNL O ACCOUNTING RE	1	0	0	0	0	0	0	0	0	0	0	0	1
*JNL OF ADVERTIS RES	10	1	0	0	0	0	0	0	0	0	0	0	11
-JNL OF AFRICAN HIS	2	0	0	0	0	0	0	0	0	0	0	0	2
*JNL OF AM HISTORY	1	3	1	3	0	0	0	0	0	0	0	0	8
*JNL OF ANIMAL SCI	0	1	0	0	0	0	0	0	0	0	0	0	1
*JNL O APP BEHAV SCI	0	0	0	0	0	0	0	0	0	2	0	0	2
*JNL OF APPLIED PSY	3	1	0	0	0	0	0	0	0	1	0	0	5
*JNL O ASIAN STUDIES	2	0	0	0	0	0	0	0	0	0	0	0	2
*JNL OF BUSINESS	0	1	0	1	0	0	0	0	0	0	0	0	2
*JNL O COL STU DEVEL	1	0	0	0	0	0	0	0	0	0	0	0	1
-JNL O COL STU PERSO	3	0	0	0	0	0	0	0	0	0	0	0	3
*JNL O COMMUNICATION	2	8	0	2	0	0	0	0	1	4	0	0	17
*JNL CONSULT&CLIN PS	12	20	1	3	0	0	0	0	0	3	0	0	39
*JNL COUNSEL & DEVEL	6	12	0	1	0	0	0	0	0	0	0	0	19
*JNL O COUNSEL PSYCH	0	1	0	2	0	0	0		0	1	0	0	4
-JNL OF CREAT BEHAV	0	2	0	0	0	0	0	0	0	0	0	0	2
*JNL OF EC EDUCATION	1	0	0	1	0	0	0	0	0	0	0	0	2
*JNL OF ECON ISSUES	1	0	0	0	0	0	0	0	0	0	0	0	1
*JNL OF EC PERSPECT	1	0	0	0	2	0	0	0	0	0	0	0	3
*JNL OF EDUCATION	2	1	0	0	0	0	0	0	0	0	0	0	3
*JNL O ED PSYCHOLOGY	4	4	0	0	1	0	0	0	0	0	0	0	9
*JNL OF ED RESEARCH	1	0	2	0	0	0	0	0	0	0	0	0	3

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
-J O EXP PSYCHOLOGY	1	0	0	0	0	0	0	0	0	0	0	0	1
*J O EXP PSY:ANIMAL	1	0	0	0	0	0	0	0	0	0	0	0	1
*J O EXP PSY:GENERAL	0	1	0	0	0	0	0	0	0	0	0	0	1
*J O EXP PSY:L M & C	1	1	0	0	0	0	0	0	0	0	0	0	2
*JOURNAL OF FINANCE	0	0	0	0	0	0	0	0	0	1	0	0	1
*JNL O GEN EDUCATION	2	0	0	0	0	0	0	0	0	0	0	0	2
*JNL O GENERAL PSYCH	0	0	0	0	0	0	0	0	0	1	0	0	1
*JNL OF GEOGRAPHY	0	1	0	0	0	1	0	0	0	0	0	0	2
*JNL OF HI EDUCATION	2	0	0	1	0	0	0	0	0	0	0	0	3
*JNL OF LATIN AM ST	0	0	0	0	0	0	0	0	1	0	0	0	1
*JNL O LEARN DISABIL	3	3	0	0	0	0	0	0	0	0	8	0	14
*JNL OF MARKETING	5	12	0	2	0	0	0	0	0	0	0	0	19
*JNL O MARKETING RES	5	5	0	0	0	1	0	0	0	0	0	0	11
*JNL O MARR & FAMILY	7	18	0	2	0	0	0	0	0	3	0	0	30
*JNL OF ORGAN CHEM	0	0	0	1	0	0	0	0	0	0	0	0	1
*JNL OF PERSONALITY	2	1	0	0	0	0	0	0	0	0	0	0	3
*JNL O PERS & SO PSY	2	15	4	1	0	0	0	0	0	12	0	0	34
*JNL PHYS ED REC & D	1	6	0	0	0	0	0	0	0	0	12	6	25
*JNL OF POP CULTURE	1	11	0	2	0	0	0	0	0	0	0	0	14
*JNL O POP FILM & TV	0	0	2	1	0	0	0	0	0	0	1	5	9
*JNL OF READING	13	14	1	7	0	0	0	0	0	0	0	0	35
*JNL OF RELIGION	1	2	0	0	0	0	0	0	0	0	0	0	3
*+JNL OF SCH HEALTH	2	13	0	1	0	0	1	3	1	0	0	0	21
*JNL OF SOC HISTORY	1	2	0	0	0	0	0	0	0	0	0	0	3
*JNL OF SOC ISSUES	2	2	0	1	0	0	0	0	0	0	0	0	5
*JNL OF SOC PSYCH	2	0	0	1	0	0	0	0	0	3	0	0	6
*JNL OF SPECIAL ED	1	1	0	0	0	0	0	0	0	0	0	0	2
*JNL OF SPORT HIS	0	1	1	0	0	0	0	0	0	0	0	0	2
*JNL OF STATE GOVT	0	0	0	0	0	0	0	0	0	2	0	0	2
*JNL OF TEACH ED	2	2	1	0	0	0	0	0	0	0	0	0	5
*JNL O T AM AC O REL	0	0	0	0	0	0	0	0	1	1	0	0	2
*JNL OF T AM VET M A	0	4	0	0	0	0	0	0	0	0	0	2	6
*JNL O T HIS O IDEAS	0	2	0	1	0	0	0	0	0	0	0	0	3
-JNL OF T OPT SOC AM	1	1	0	0	0	0	0	0	0	0	0	0	2
*JNL OF TRANSPER PSY	0	1	0	0	0	0	0	0	0	0	0	0	1
*JOURNALISM QTRLY	4	4	2	0	0	0	0	0	0	0	0	0	10
*LANGUAGE	1	0	0	4	0	0	0	0	0	0	0	0	5
*LANGUAGE ARTS	4	7	1	1	0	0	0	0	0	0	0	0	13
*LAW & CONTEMP PROB	0	1	0	0	0	0	0	0	0	0	0	0	1
*LEARNING	1	1	0	0	0	0	0	0	0	0	0	0	2
*LEARN DISABILITY Q	0	0	1	0	0	0	0	0	0	0	0	0	1
*LIBERAL EDUCATION	1	0	0	0	1	0	0	0	0	0	0	0	2
*+LIBRARY JOURNAL	8	9	26	44	0	0	9	7	0	0	0	0	103
*+LIFE	45	35	2	0	0	0	0	0	0	0	117	9	208
-LIVING WILDERNESS	2	0	0	0	0	0	0	0	0	0	0	0	2
-LOOK	1	0	1	0	0	0	0	0	0	0	0	0	2
*MACLEAN'S	41	21	0	0	0	0	0	0	6	7	82	118	275
*MADEMOISELLE	7	4	0	0	0	0	0	0	1	1	14	16	43
*MAG FAN & SCI FICT	0	0	2	0	0	0	0	0	0	0	0	0	2
*+MANAGEMENT ACCOUNT	0	0	0	1	0	0	3	0	0	1	0	0	5

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	A YR TL '89/90
*+MANAGEMENT REVIEW	0	0	1	2	0	0	0	1	0	0	0	0	4
-MANAGEMENT SOLUTION	3	0	0	0	0	0	0	0	0	0	0	0	3
-MARR & FAM LIVING	0	1	0	0	0	0	0	0	0	0	0	0	1
*MATHEMATICS MAG	0	0	0	0	0	5	0	0	0	0	0	0	5
*MATHEMATICS TEACH	3	1	2	0	0	0	0	0	0	0	0	0	6
*MEDIA & METHODS	4	0	4	6	0	0	0	0	0	0	0	0	14
*MERCURY	0	2	0	0	0	0	0	0	0	0	0	0	2
*MIDDLE EAST JOURNAL	1	0	0	0	0	0	0	0	0	0	0	0	1
*MIDDLE SCH JNL	0	0	0	1	0	0	0	0	0	0	0	0	1
*MIDWEST QUARTERLY	0	1	0	0	0	0	0	0	0	0	0	0	1
*MIND	2	0	0	0	0	0	0	0	0	0	0	0	2
*MODERN FICTION STU	0	7	1	0	0	0	0	0	0	0	0	0	8
*MODERN LANG JOURNAL	5	8	0	0	0	0	0	0	0	0	0	0	13
*MODERN LANG REVIEW	0	0	0	0	1	0	0	0	0	0	0	0	1
-MODERN PHOTOGRAPHY	0	0	0	1	0	0	0	0	0	0	0	0	1
*+MONEY	1	0	0	0	0	0	0	0	0	2	27	20	50
-MONIST	1	0	0	0	0	0	0	0	0	0	0	0	1
*MONTH LABOR REVIEW	22	4	0	0	0	0	0	0	1	2	0	0	29
*MOSAIC	1	0	0	0	0	0	0	0	0	0	0	0	1
*MS.	27	14	0	0	0	0	0	0	1	3	27	35	107
*MUSIC EDUCATORS JNL	1	0	0	0	0	0	0	0	0	0	0	0	1
-MUSIC JOURNAL	0	0	0	0	0	1	0	0	0	0	0	0	1
*N A S P A JOURNAL	1	0	0	0	2	0	0	0	0	0	0	0	3
*N A S S P BULLETIN	6	4	0	0	3	0	0	0	0	0	0	0	13
*+NATION	56	18	0	0	0	0	0	1	1	3	40	38	157
*NATIONAL GEOGRAPHIC	10	15	0	3	0	0	0	0	0	0	22	62	112
*NATIONAL GEOG WORLD	2	0	0	0	0	0	0	0	0	0	2	2	6
*NATIONAL REVIEW	25	11	0	0	0	0	0	0	1	6	64	103	210
*NATIONAL WILDLIFE	0	0	0	0	0	0	0	0	0	5	7	8	20
*NATION'S BUSINESS	19	18	1	2	0	0	0	0	5	2	0	0	47
*NATURAL HISTORY	10	5	0	0	0	0	0	0	0	2	6	3	26
*NEW AMERICAN	0	0	2	3	0	0	0	0	0	0	0	0	5
*NEW DIR FOR HI ED	0	1	2	1	0	0	0	0	0	0	0	0	4
*NEW ENGLAND EC REV	2	0	1	0	0	0	0	0	0	0	0	0	3
*NEW LITERARY HIST	1	1	0	0	0	0	0	0	0	0	0	0	2
*NEW PERSPECTIVES Q	0	1	0	0	0	0	0	0	0	0	0	0	1
*+NEW REPUBLIC	29	11	0	1	0	0	0	2	7	10	40	96	196
-NEW STATESMAN	30	23	1	2	0	0	0	0	0	0	0	0	56
*NEW STATESMAN & SOC	0	5	2	7	0	0	0	0	1	2	0	0	17
*N Y REVIEW OF BOOKS	10	4	0	0	0	0	0	0	0	0	0	0	14
*N Y THEATRE CRI REV	1	0	0	1	0	0	0	0	0	0	0	0	2
*NEW YORKER	38	18	0	2	0	0	0	0	2	2	0	0	62
*+NEWSWEEK	186	97	0	0	0	0	0	1	35	15	498	558	1,390
*19TH CENTURY LIT	2	1	0	0	0	0	0	0	0	0	0	0	3
*NORTHWEST OH QTRLY	0	2	0	0	0	0	0	0	0	0	0	0	2
*NOVEL	1	0	0	0	0	0	0	0	0	0	0	0	1
-NUESTRO	0	0	0	0	1	0	0	0	0	0	0	0	1
*OCCUPAT OUTLOOK Q	0	0	0	0	0	0	0	0	1	1	0	0	2
*OCLC MICRO	0	0	9	13	0	0	0	0	0	0	0	0	22
*OFFICE	4	0	1	1	0	0	0	0	0	4	0	0	10

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*OHIO	0	0	0	2	0	0	0	0	0	0	0	0	2
*OH HI SCH ATHLETE	0	0	6	0	0	0	0	0	0	0	0	0	6
*OHIO HISTORY	0	4	0	0	0	0	0	0	0	0	0	0	4
*OH JNL OF SCIENCE	1	1	0	0	0	0	0	0	0	0	0	0	2
*OHIO MONITOR	0	0	0	1	0	0	0	0	0	0	0	0	1
-+OHIO SCHOOLS	0	0	0	0	0	0	0	1	0	0	0	0	1
*OLYMPIAN	0	0	1	4	0	0	0	0	0	0	0	0	5
*OMEGA	1	1	0	2	0	0	0	0	0	0	0	0	4
*OMNI	15	2	0	0	0	0	0	0	1	0	14	32	64
-+OUTLOOK	1	0	0	0	0	0	0	1	0	0	0	0	2
*P M L A	0	0	0	0	0	0	0	0	0	0	0	0	1
*PACIFIC AFFAIRS	2	0	1	0	0	0	0	0	0	0	0	0	3
*PACIFIC HIST REVIEW	0	0	0	0	0	0	0	0	0	1	0	0	1
*PAINT HORSE JOURNAL	0	0	0	0	0	0	0	0	0	0	7	13	20
*+PARENTS	6	1	0	0	0	0	16	35	2	2	442	76	580
*PARKS & RECREATION	0	5	0	0	0	0	0	0	0	0	0	0	5
*PEOPLE WEEKLY	78	37	0	0	0	0	0	0	6	4	94	136	355
*PERCEPT & MOTOR SK	2	0	0	0	0	0	0	0	0	0	0	0	2
*PERSONNEL	10	8	0	1	0	0	0	0	0	1	0	0	20
*PERSONNEL MANAGEMT	0	0	0	1	0	0	0	0	0	0	0	0	1
*PERSONNEL PSYCH	1	1	0	0	0	0	0	0	0	0	0	0	2
*PHI DELTA KAPPAN	47	21	0	0	0	2	0	0	4	4	5	38	121
*PHILOSOPHY	0	0	1	0	0	0	0	0	0	0	0	0	1
*PHYSICAL EDUCATOR	0	0	0	0	0	0	0	0	0	0	7	15	22
*PHYSICAN & SPORTS M	0	4	0	0	0	0	0	0	0	0	5	4	13
*PHYSICS TODAY	3	2	2	0	0	0	0	0	0	0	0	0	7
*POETRY	1	1	0	0	0	0	0	0	0	0	0	1	3
*POLITICAL SCI Q	3	0	0	0	0		0	0	1	1	0	0	5
*POLLUTION ENGINEER	1	0	1	0	0	0	0	0	0	0	0	0	2
*POPULAR PHOTOGRAPHY	0	0	4	0	0	0	0	0	0	0	0	0	4
*POPULATION BULLETIN	1	0	0	0	0	0	0	0	0	0	0	0	1
*PRACTICAL ACCOUNTNT	0	1	0	0	0	0	0	0	0	0	0	0	1
*PREVENTION	1	5	0	0	0	0	0	0	0	0	8	5	19
*PRINCIPAL	0	1	2	0	0	0	0	0	0	0	0	0	3
*PROB OF COMMUNISM	8	2	0	1	0	0	0	0	0	0	0	0	11
*+PROGRESSIVE	3	2	2	7	0	0	13	8	1	2	0	0	38
*PSYCHOLOGICAL BULL	4	5	0	0	1	0	0	0	0	0	0	0	10
*PSYCHOLOGICAL RPTS	6	5	0	0	0	0	0	0	1	5	0	0	17
*PSYCHOLOGICAL REV	2	5	0	0	0	0	0	0	0	0	0	0	7
*PSYCHOLOGY TODAY	60	40	0	0	0	0	0	0	3	11	49	77	240
*PUBLIC ADMIN REV	1	0	0	0	0	0	0	0	1	0	0	0	2
*PUBLIC HEALTH RPTS	10	3	0	0	0	0	0	0	1	3	0	0	17
*PUBLIC OPINION Q	6	9	0	1	0	0	0	0	0	0	0	0	16
*PUBLIC WELFARE	0	3	0	0	0	0	0	0	0	0	0	0	3
*PUBLISHERS WKLY	42	22	83	33	0	0	0	0	0	1	0	0	181
*QUARTER HORSE JNL	3	10	0	0	0	0	0	0	0	0	22	31	66
*QTRLY JNL OF SPEECH	1	0	0	0	0	0	0	0	0	0	0	0	1
-RAMPARTS	1	0	0	0	0	0	0	0	0	0	0	0	1
*READER'S DIGEST	49	25	0	0	0	0	0	0	3	0	49	42	168
*READING RES QTRLY	0	0	1	0	1	1	0	0	0	0	0	0	3

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	A YR TL '89/90
*READING TEACHER	7	22	0	9	0	1	0	0	0	0	0	0	39
*RELIGIOUS EDUCATION	0	0	0	0	0	0	0	0	0	1	0	0	1
*RES IN T TEACH ENG	0	1	0	0	1	0	0	0	0	0	0	0	2
-RESEARCH QUARTERLY	0	1	0	0	0	0	0	0	0	0	0	0	1
*RES Q FOR EX & SPT	1	0	0	0	0	0	0	0	0	0	0	0	1
*+ROLLING STONE	0	0	0	0	0	0	49	37	2	0	45	154	287
*ROTARIAN	0	0	0	1	0	0	0	0	0	0	0	0	1
*RURAL SOCIOLOGY	0	0	1	0	0	0	0	0	0	0	0	0	1
-+SATURDAY REVIEW	9	0	0	0	0	0	0	1	0	0	0	0	10
-SAT REVIEW/WORLD	1	0	0	0	0	0	0	0	0	0	0	0	1
*SCHOLASTIC COACH	2	3	0	0	0	0	0	0	0	0	16	14	35
*+SCHOLASTIC UPDATE	2	0	2	1	0	0	3	2	1	0	0	0	11
*+SCHOOL ARTS	1	0	0	0	0	0	1	0	0	0	0	0	2
*SCHOOL LIBRARY JNL	7	0	8	11	0	0	0	0	0	0	0	0	26
*SCHOOL SCI & MATH	3	1	0	0	0	0	0	0	0	0	0	0	4
*+SCIENCE	30	33	2	0	0	0	20	31	0	12	0	0	128
-SCIENCE (YR)	8	7	0	0	0	0	0	0	0	0	0	0	15
*SCIENCE & CHILDREN	1	0	0	0	1	0	0	0	0	0	0	0	2
*SCIENCE BKS & FILMS	0	0	6	9	0	0	0		0	0	0	0	15
-SCIENCE DIGEST	49	2	0	0	0	0	0	0	0	0	0	0	51
*SCIENCE EDUCATION	1	0	0	0	0	0	0	0	0	0	0	0	1
*SCIENCE NEWS	69	32	0	0	0	0	0	0	4	8	97	124	334
*SCIENCE TEACHER	3	3	3	0	0	0	0	0	0	0	0	0	9
*SCIENCES, THE	0	2	0	0	0	0	0	0	0	0	4	1	7
*SCIENTIFIC AM	17	6	0	0	0	0	0	0	5	2	35	28	93
*SEA FRONTIERS	3	0	1	0	0	0	0	0	0	0	0	0	4
-+SENIOR SCHOLASTIC	0	0	0	0	0	0	0	5	0	0	0	0	5
*SHAKESPEARE QTRLY	3	0	0	0	0	0	0	0	0	0	0	0	3
*SHARING THE VICTORY	0	0	1	0	0	0	0	0	0	0	0	0	1
*SIGNS	0	1	0	0	0	0	0	0	0	0	0	0	1
*SKY AND TELESCOPE	0	3	0	0	0	0	0	0	0	0	69	4	76
*SMITHSONIAN	11	9	0	1	0	0	0	0	0	0	0	0	21
-+SOCIAL CASEWORK	3	4	1	0	0	0	0	5	0	2	0	0	15
*SOCIAL EDUCATION	0	3	1	1	0	0	0	0	0	1	0	0	6
*SOCIAL FORCES	7	9	2	4	0	0	0	0	0	1	0	0	23
*+SOCIAL POLICY	1	2	1	4	0	1	0	4	0	3	0	0	16
*SOCIAL PROBLEMS	23	2	1	4	0	1	0	0	1	2	0	0	34
*SOCIAL RESEARCH	3	1	0	0	0	0	0	0	0	0	0	0	4
*SOCIAL SERVICE REV	0	2	0	0	0	0	0	0	0	1	0	0	3
*SOCIAL STUDIES	1	2	0	0	0	0	0	0	0	1	0	0	4
*SOCIAL WORK	14	4	0	0	0	0	0	0	1	5	7	14	45
*SOCIETY	11	4	0	0	0	0	0	0	2	2	12	45	76
*SOCIOLOGY & SOC RES	2	9	0	0	0	0	0	0	0	1	0	0	12
*SOCIOLOGY OF ED	1	1	0	0	0	0	0	0	0	0	0	0	2
*SOIL&WAT CONSERV N	1	0	0	0	0	0	0	0	0	0	0	0	1
*SOUTHERN HORSEMAN	0	0	0	0	0	0	0	0	0	0	6	0	6
*SOVIET LIFE	2	1	0	0	0	0	0	0	0	0	0	0	3
*SOVIET SPORTS REV	0	0	0	0	0	0	0	0	0	0	0	3	3
*+SPORTS ILLUSTRATED	74	16	0	0	0	0	2	4	4	6	143	223	472
*STUD IN PHILOLOGY	0	0	1	2	0	0	0	0	0	0	0	0	3

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
^STUDIO POTTER	0	0	0	0	0	0	0	0	0	0	0	4	4
*SURVEY O CURR BUS	0	2	0	2	0	0	0	0	0	0	0	0	4
*T.H.E. JOURNAL	0	0	1	0	0	0	0	0	0	0	0	0	1
*TAXATION F ACCOUNT	0	0	1	0	0	0	0	0	0	0	0	0	1
*TAXES; THE TAX MAG	0	0	2	0	0	0	0	0	0	0	0	0	2
*TECH COMMUNICATION	4	0	0	0	0	0	0	0	0	0	0	0	4
^TECHNOLOGY REVIEW	15	9	0	0	0	0	0	0	0	2	10	6	42
*TECHTRENDS	0	0	8	11	0	0	0	0	0	0	0	0	19
*TESOL QUARTERLY	11	25	1	1	0	0	0	0	0	0	0	0	38
*THEATRE CRAFTS	0	3	0	5	1	0	0	0	0	0	0	0	9
*THEORY INTO PRACT	1	0	0	0	0	0	0	0	0	0	0	0	1
*THRUST	7	0	0	0	0	0	0	0	0	0	0	0	7
^+TIME	212	89	0	0	0	0	4	11	15	16	362	596	1,305
*TIMELINE	0	0	0	1	0	0	0	0	0	0	0	0	1
^+TODAY'S EDUCATION	1	0	0	0	0	0	0	0	0	0	0	0	1
-TODAY'S HEALTH	1	0	0	0	0	0	0	0	0	0	0	0	1
*TWENTIETH CEN LIT	6	1	0	0	0	0	0	0	0	0	0	0	7
*U N CHRONICLE	11	3	0	1	0	0	0	0	0	0	0	0	14
^U S A TODAY	34	6	0	0	0	0	0	0	10	4	60	121	235
^U S NEWS & WLD RPT	150	77	2	0	0	0	0	0	18	13	357	342	959
*UNESCO COURIER	3	1	0	0	0	0	0	0	2	0	0	0	6
*URBAN EDUCATION	1	0	0	0	0	0	0	0	0	0	0	0	1
^VETERINARY MEDICINE	1	1	0	0	0	0	0	0	0	0	0	5	7
*VICTORIAN STUDIES	0	0	1	0	0	0	0	0	0	0	0	0	1
^VITAL SPEECHES	8	3	0	0	0	0	0	0	5	3	24	8	51
*WASHINGTON MONTHLY	8	1	4	2	0	0	0	0	1	0	0	0	16
*WASTE AGE	0	0	1	1	0	0	0	0	0	0	0	0	2
*WATER/ENG & MGMT	2	1	3	1	0	0	0	0	0	0	0	0	7
^WESTERN HORSEMAN	0	2	0	0	0	0	0	0	0	0	2	0	4
^WILDERNESS	7	2	0	0	0	0	0	0	0	0	5	9	23
*WILLIAM & MARY Q	2	0	0	0	0	0	0	0	0	0	0	0	2
*WILSON BULLETIN	0	0	2	0	0	0	0	0	0	0	0	0	2
*WILSON LIBRARY BUL	15	4	16	24	0	0	0	0	2	0	0	0	61
*WOMAN CPA	1	0	0	0	0	0	0	0	0	0	0	0	1
^WOMEN'S SPORT & FIT	4	3	0	0	0	0	0	0	0	0	8	6	21
*+WORLD HEALTH	2	0	0	1	0	0	0	2	0	1	0	0	6
*WORLD MARXIST REV	2	2	0	3	0	0	0	0	7	1	0	0	15
*WORLD POLITICS	1	1	0	0	0	0	0	0	0	0	0	0	2
*+WORLD PRESS REVIEW	4	6	1	14	0	0	11	5	1	5	0	0	47
-WORLD'S WORK	0	5	0	0	0	0	0	0	0	0	0	0	5
*+WRITER	5	0	1	0	0	0	1	0	0	0	0	0	7
*YALE REVIEW	1	0	0	0	0	0	0	0	0	0	0	0	1
*+YOUNG CHILDREN	1	0	0	0	0	0	1	0	0	0	0	0	2
SEM COMPONENT TOTALS	3,120	1,904	504	611	18	31	436	460	280	364	3,884	4,153	15,765
COLLECTION USAGE TTL	5,024		1,115		49		896		644			8,037	15,765

* ACTIVE TITLE
^ RESERVE TITLE
- DEAD TITLE
+ MICROFILM TITLE

APPENDIX B

CURRENT SUBSCRIPTION TITLES SPREADSHEET

	1989 FALL BD VOL	1990 SPR BD VOL	1989 FALL CUR ISS	1990 SPR CUR ISS	1989 FALL ILL	1990 SPR ILL	1989 FALL MFLM	1990 SPR MFLM	1989 FALL PRI-SONS	1990 SPR PRI-SONS	1989 FALL RES-ERVE	1990 SPR RES-ERVE	1989/90 ACA YEAR TTL
*A B A BANKING JNL	1	1	0	0	0	0	0	0	0	0	0	0	2
*A V C AUDIO-VIS COM	0	0	0	5	0	0	0	0	0	0	0	0	5
*ACADEMIC COMPUTING	0	0	0	3	0	0	0	0	0	0	0	0	3
*ACCOUNTING REVIEW	2	2	0	0	0	0	0	0	0	0	0	0	4
*ADMINISTRAT SCI Q	0	0	0	0	0	0	0	0	1	0	0	0	1
^+ADVERTISING AGE	4	0	0	0	0	0	26	18	0	1	47	69	165
*AGING	1	0	0	0	0	0	0	0	0	0	0	0	1
*ALCOHOL HEA & RES W	0	1	0	0	0	0	0	0	0	0	0	0	1
*ALTERNATIVES	1	0	0	0	0	0	0	0	0	0	0	0	1
*+AMERICA	23	16	1	2	0	0	8	15	0	2	0	0	67
*AMERICAN ANTHROPOL	2	3	1	0	0	0	0	0	2	2	0	0	10
^AMERICAN ARTIST	13	1	0	0	0	0	0	0	0	0	8	2	24
*AM BEHAVIORAL SCI	5	5	0	0	0	1	0	0	1	2	0	0	14
*AM BIOLOGY TEACHER	0	0	0	0	0	0	0	0	0	1	0	0	1
*+AMERICAN CRAFT	0	0	0	1	0	0	0	0	0	0	0	0	1
*AM ECONOMIC REV	6	2	1	0	0	0	0	0	0	1	0	0	10
*AMERICAN HERITAGE	14	7	1	0	0	0	0	0	0	0	0	0	22
*AM HISTORICAL REV	4	1	1	3	0	0	0	0	0	0	0	0	9
*AM JNL O EDUCATION	0	0	0	1	0	0	0	0	0	0	0	0	1
*AM JNL O PSYCHOLOGY	5	3	0	0	0	0	0	0	0	1	0	0	9
*AM JNL O SOCIOLOGY	8	1	0	0	0	0	0	0	0	2	0	0	11
*AMERICAN LITERATURE	3	2	0	0	0	2	0	0	0	0	0	0	7
*AM MIDLAND NATURAL	3	0	0	0	0	1	0	0	0	1	0	0	5
*AM POL SCI REVIEW	4	3	0	1	0	0	0	0	0	0	0	0	8
*AM PSYCHOLOGIST	10	18	2	1	0	0	0	0	1	4	0	0	36
*AM QUARTERLY	0	0	1	2	0	0	0	0	0	0	0	0	3
*AM REHABILITATION	0	1	0	0	0	0	0	0	0	0	0	0	1
*AMERICAN SCHOLAR	2	5	0	1	0	0	0	0	0	1	0	0	9
*AM SCH & UNIV	4	0	2	2	0	0	0	0	0	0	0	0	8
*AM SCH BOARD JNL	0	0	6	0	0	0	0	0	0	0	0	0	6
*AMERICAN SCIENTIST	6	0	0	0	0	0	0	0	0	0	0	0	6
*AM SECONDARY ED	0	0	1	0	0	0	0	0	0	0	0	0	1
*AM SOCIOLOGICAL REV	11	11	0	0	0	0	0	0	0	6	0	0	28
*AMERICAN SPEECH	0	0	2	1	0	0	0	0	0	0	0	0	3
*AMERICAS	6	1	0	2	0	0	0	0	0	0	0	0	9
*AMICUS JOURNAL	0	0	0	1	0	0	0	0	0	0	0	0	1
*ANALOG SCI FIC/FACT	14	0	3	0	0	0	0	0	0	0	0	0	17
*ANALYTICAL CHEM	1	0	0	0	0	0	0	0	0	0	0	0	1
*ANIMALS' AGENDA	0	4	2	0	0	0	0	0	2	0	0	0	8
*ANNALS A S P & S S	11	0	0	0	0	0	0	0	0	0	0	0	11
^APPALOOSA JOURNAL	0	0	0	0	0	0	0	0	0	0	2	3	5
*+ARITHMETIC TEACHER	2	11	0	4	0	0	0	5	0	0	0	0	22
*ART EDUCATION	1	1	0	0	0	0	0	0	0	0	0	0	2
^ART IN AMERICA	8	2	0	0	0	0	0	0	0	0	28	13	51
^ART INTERNATIONAL	2	0	0	0	0	0	0	0	0	0	9	2	13
^ART NEWS	9	4	0	0	0	0	0	0	0	0	25	34	72
*ARTFORUM	11	8	0	6	0	0	0	0	0	0	0	0	25

PERIODICALS USAGE - CURRENT SUBSCRIPTION TITLES

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*ARTS & ACTIVITIES	0	3	0	8	0	0	0	0	0	0	0	0	11
*ARTS MAGAZINE	7	1	0	1	0	0	0	0	0	0	0	0	9
*ASTRONOMY	2	1	0	0	0	0	0	0	0	0	72	6	81
*ATLANTIC	27	7	6	10	0	0	0	0	0	0	0	0	50
*AUDUBON	12	11	0	0	0	0	0	0	1	2	4	7	37
*AZTLAN	0	0	0	1	0	0	0	0	0	0	0	0	1
*+BILINGUAL REVIEW	2	0	0	0	0	0	0	1	0	0	0	0	3
*BIOSCIENCE	8	3	1	0	0	0	0	0	0	1	0	0	13
*BLACK AM LIT FORUM	1	0	0	0	0	0	0	0	0	0	0	0	1
*BLACK COLLEGIAN	3	0	0	0	0	0	0	0	0	0	2	7	12
*+BLACK ENTERPRISE	3	1	1	0	0	0	8	0	3	1	0	0	17
*BLACK SCHOLAR	2	0	0	0	0	0	0	0	0	4	0	0	6
*BOOKLIST	3	0	22	32	0	0	0	0	0	0	0	0	57
*BROADCASTING	55	3	2	4	0	0	0	0	0	0	0	0	64
*+BULLET ATOMIC SCI	5	13	2	3	0	0	4	0	0	1	0	0	28
*BUSINESS AMERICA	0	2	0	0	1	0	0	0	0	0	0	0	3
*BUSINESS & SOC REV	1	0	0	0	0	0	0	0	0	0	0	0	1
*+BUSINESS ED FORUM	0	0	0	0	0	0	1	6	0	0	0	0	7
*BUSINESS MONTH	0	0	0	0	0	0	0	0	0	0	3	15	18
*BUSINESS REV (PHIL)	1	0	0	0	0	0	0	0	0	0	0	0	1
*BUSINESS WEEK	43	28	0	1	0	1	0	0	10	12	209	245	549
*+BYTE	3	0	0	0	0	0	1	1	0	3	17	6	31
*CAR AND DRIVER	4	7	5	13	0	0	0	0	0	0	0	0	29
*CERAMIC REVIEW	0	0	0	0	0	0	0	0	0	0	0	1	1
*CERAMICS MONTHLY	2	2	0	0	0	0	0	0	0	0	0	11	15
*CHALLENGE	3	4	1	0	0	2	0	0	1	0	0	0	11
*CHANGE	3	3	0	0	0	1	0	0	0	0	1	5	13
*+CHANGING TIMES	12	6	4	1	0	0	18	5	2	0	0	0	48
*CHILD DEVELOPMENT	8	14	0	1	0	0	0	0	0	1	0	0	24
*CHILD WELFARE	5	18	0	2	0	0	0	0	0	1	0	0	26
*CHILDHOOD EDUCATION	0	4	2	0	0	0	0	0	0	0	0	0	6
*+CHILDREN TODAY	6	10	0	4	0	0	14	3	0	1	0	0	38
*CHOICE	5	2	12	16	0	0	0	0	0	0	0	0	35
*+CHRISTIAN CENTURY	28	23	7	4	0	0	28	28	0	5	0	0	123
*CHRISTITY & CRISIS	3	1	1	0	0	0	0	0	0	0	0	0	5
*+CHRISTIANITY TODAY	14	22	6	9	0	0	40	31	1	2	0	0	125
*+CHRONICLE OF HI ED	0	0	85	67	0	0	39	38	0	0	0	0	229
*CHURCH HISTORY	1	1	0	0	0	0	0	0	0	0	0	0	2
*CITHARA	0	0	0	1	0	0	0	0	0	0	0	0	1
*CITIES & VILLAGES	0	0	1	0	0	0	0	0	0	0	0	0	1
*CLEARING HOUSE	37	9	0	0	0	0	0	0	0	0	1	7	54
*COACHING CLINIC	0	0	0	0	0	0	0	0	0	0	2	0	2
*COLL COMP & COMMUN	3	1	0	0	0	0	0	0	0	0	0	0	4
*+COLLEGE ENGLISH	1	3	0	0	0	0	0	2	1	0	0	0	7
*COLLEGE TEACHING	0	0	1	0	0	0	0	0	0	0	0	0	1
*COMMONWEAL	26	15	2	3	0	0	0	0	0	0	0	0	46
*COMMUNICATION ARTS	0	0	0	0	0	0	0	0	0	0	0	3	3
*COMMUNICATION ED	4	2	0	1	0	0	0	0	0	0	0	0	7
*COMMUNIC OF THE ACM	2	0	0	0	0	0	0	0	0	1	0	0	3
*COMMITY TECH JR C J	0	1	0	0	0	0	0	0	0	0	0	0	1

PERIODICALS USAGE - CURRENT SUBSCRIPTION TITLES

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*COMPAR ST SOC & HIS	1	1	0	0	0	0	0	0	0	0	0	0	2
*COMPUTERS & PEOPLE	3	0	0	0	0	0	0	0	0	0	0	0	3
*CONGRESSIONAL DIGEST	1	6	0	0	0	0	0	0	1	0	13	0	21
*CONGRESS Q WK RPT	13	25	2	2	0	0	0	0	2	1	0	0	45
*+CONSUMER REPORTS	1	0	0	0	0	0	6	14	0	1	42	20	84
*CONTEMPORY PSY	0	0	0	1	0	0	0	0	0	0	0	0	1
*CRIME & DELINQUENCY	1	0	0	0	0	0	0	0	1	1	0	0	3
*CRIMINOLOGY	0	1	1	0	0	1	0	0	0	0	0	0	3
*+CRISIS	0	0	0	0	0	0	1	2	0	1	0	0	4
*CURRENT	6	4	0	0	0	0	0	0	1	0	0	0	11
*CURRENT ANTHROPOLOG	0	6	0	0	0	0	0	0	0	2	0	0	8
*CURRENT HISTORY	5	5	0	0	0	0	0	0	1	1	5	7	24
*DAEDALUS	2	0	1	2	0	0	0	0	0	0	0	0	5
*DATAMATION	23	2	2	2	0	0	0	0	2	1	0	0	32
*DEVELOPMENTAL PSY	3	2	0	0	0	0	0	0	2	0	0	0	7
*DISCOVER	10	2	0	0	0	0	0	0	8	4	42	42	108
*DISSENT	0	1	0	0	0	0	0	0	0	1	0	0	2
*+DOWNBEAT	0	0	0	1	0	0	3	5	0	1	0	0	10
*E P A JOURNAL	0	1	1	1	0	0	0	0	0	2	0	0	5
*EARTH SCIENCE	0	0	0	0	0	0	0	0	0	1	0	0	1
*+EBONY	0	0	0	0	0	0	19	8	1	4	18	34	84
*ECOLOGY	1	1	0	0	0	0	0	0	0	2	0	0	4
*ECON INDICATORS	0	0	0	1	0	0	0	0	0	0	0	0	1
*ECON PERSPECT-CHI	0	0	0	1	0	0	0	0	0	0	0	0	1
*ECON REV-ATLANTA	0	0	0	1	0	0	0	0	0	0	0	0	1
*ECON REV-KANSAS C	0	0	0	1	0	0	0	0	0	0	0	0	1
*+ECONOMIST	75	69	16	22	0	2	31	30	7	15	0	0	267
*EDUCATION DIGEST	14	7	0	0	0	0	0	0	6	2	57	53	139
*ED & PSYCH MEASURE	3	1	0	0	0	1	0	0	0	0	0	0	5
*+ED LEADERSHIP	2	3	2	3	0	0	3	27	0	0	0	0	40
*+ED TECHNOLOGY	4	0	0	0	0	0	2	0	0	0	0	0	6
*+EDUCATIONAL THEORY	0	0	0	0	0	0	1	3	0	0	0	0	4
*ELECTRONIC LEARNING	1	0	0	0	0	0	0	0	0	0	2	0	3
*ELEMENTARY SCH JNL	2	3	0	0	0	0	0	0	0	0	0	0	5
*ENCOUNTER	3	2	0	0	0	0	0	0	0	3	0	0	8
*ENGLISH JOURNAL	14	6	1	2	0	0	0	0	0	0	0	0	23
*ENVIRONMENT	14	1	0	0	0	0	0	0	2	5	30	44	96
*EQUUS	5	5	0	0	0	0	0	0	0	0	3	3	16
*ESQUIRE	9	4	0	0	0	0	0	0	0	5	11	10	39
*ESSAYS IN CRITICISM	2	0	1	2	0	0	0	0	0	0	0	0	5
*ETHICS	2	0	1	2	0	0	0	0	1	1	0	0	7
*ETHNOLOGY	0	0	0	0	0	0	0	0	1	0	0	0	1
*+EXCEPTIONAL CHILDR	3	2	0	0	0	0	3	0	0	0	0	0	8
*EXPLICATOR	5	2	0	0	0	0	0	0	0	0	0	0	7
*EXTRAPOLATION	3	0	0	0	0	0	0	0	0	0	0	0	3
*FBI LAW ENFORCE BUL	0	0	0	0	0	0	0	0	2	0	0	0	2
*FDA CONSUMER	5	0	0	0	0	0	0	0	1	1	0	0	7
*FAMILY PLAN PERSP	0	3	0	0	0	0	0	0	0	0	0	0	3
*FEDERAL PROBATION	0	0	0	0	0	0	0	0	0	2	0	0	2
*FEDERAL RESERVE BUL	5	0	0	0	0	0	0	0	0	0	0	0	5

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*FEMINIST STUDIES	3	2	0	1	0	0	0	0	0	0	0	0	6
*FIELD & STREAM	7	1	0	0	0	0	0	0	0	2	5	3	18
*FILM COMMENT	1	0	0	0	0	0	0	0	0	0	8	2	11
*FILM QUARTERLY	3	0	1	0	0	0	0	0	0	0	0	0	4
*FINANCE & DEVELOP	1	0	0	0	0	0	0	0	0	0	0	0	1
*FOCUS (AM GEOG SOC)	0	0	0	0	0	0	0	0	1	0	0	0	1
*+FORBES	15	20	6	0	0	0	23	24	13	3	0	0	104
*FORCES	2	0	0	1	0	0	0	0	0	0	0	0	3
*FOREIGN AFFAIRS	13	4	0	2	0	0	0	0	0	0	0	0	19
*FOREIGN LANG ANNALS	4	0	0	0	0	0	0	0	0	0	0	0	4
*FOREIGN POLICY	7	1	1	1	0	0	0	0	1	0	0	0	11
*FORTUNE	47	15	0	0	0	0	0	0	7	1	74	134	278
*+FUTURIST	7	4	0	0	0	0	15	11	4	6	0	0	47
*GERONTOLOGIST	2	5	1	10	0	0	0	0	5	0	0	0	23
*GOOD HOUSEKEEPING	2	5	0	0	0	0	0	0	0	1	13	13	34
*HARPER'S	26	19	6	4	0	0	0	0	3	0	0	0	58
*HARVARD BUS REVIEW	19	32	0	3	0	0	0	0	2	1	0	0	57
*HARVARD ED REVIEW	0	1	0	0	0	0	0	0	0	0	0	0	1
*HASTINGS CENTER RPT	2	10	2	1	0	0	0	0	2	0	0	0	17
*HAZARDOUS WAST MGMT	0	0	0	0	0	0	0	0	0	0	68	0	68
*HAZMAT WORLD	0	0	0	0	0	0	0	0	0	0	53	0	53
*HEALTH	24	9	0	0	0	0	0	0	2	2	26	43	106
*+HEALTH EDUCATION	0	0	0	1	0	1	0	3	0	0	0	0	5
*HIGH SCHOOL JOURNAL	1	2	0	0	0	0	0	0	0	0	0	0	3
*HISPANIA	1	1	0	3	0	0	0	0	0	0	0	0	5
*HISPANIC REVIEW	0	1	0	0	0	0	0	0	0	0	0	0	1
*HISTORY TEACHER	2	0	0	0	0	0	0	0	0	0	0	0	2
*HISTORY TODAY	4	3	1	1	0	0	0	0	0	0	0	0	9
*HORN BOOK MAGAZINE	5	3	0	0	0	0	0	0	0	0	0	0	8
*HUDSON REVIEW	5	1	0	0	0	0	0	0	0	0	0	0	6
*HUMAN ORGANIZATION	2	1	0	0	0	0	0	0	0	0	0	0	3
*HUMAN RELATIONS	6	0	0	0	0	0	0	0	0	0	0	0	6
*+HUMANIST	6	8	2	0	0	0	8	12	0	2	0	0	38
*INDEPENDENT BANKER	0	0	0	1	0	0	0	0	0	0	0	0	1
*INDUSTRY WEEK	6	3	0	1	0	0	0	0	0	0	0	0	10
*INQUIRY	0	0	1	2	0	0	0	0	0	0	0	0	3
*INSTRUCTOR	18	3	0	0	0	0	0	0	0	0	10	23	54
*INSTRUMENTALIST	0	0	1	0	0	0	0	0	0	0	0	0	1
*INTL AFFAIRS	3	2	0	0	0	0	0	0	0	0	0	0	5
*ITL J POL CUL & SOC	0	0	0	2	0	0	0	0	0	0	0	0	2
*INTL JNL OF SP PSY	1	0	0	0	0	0	0	0	0	0	0	0	1
*INTERNAT WILDLIFE	3	6	0	0	0	0	0	0	0	0	1	4	14
*JET	17	3	0	0	0	2	0	0	2	0	42	16	82
*JNL FOR RES MATH ED	0	1	0	0	0	1	0	0	0	0	0	0	2
*JNL OF ABNOR PSY	6	16	0	1	0	0	0	0	0	0	0	0	23
*JNL OF ACA LIBSHIP	1	0	11	13	0	1	0	0	0	0	0	0	26
*JNL OF ACCOUNTANCY	2	0	1	1	0	0	0	0	0	0	0	0	4
*JNL O AC,AUD & FIN	0	0	0	1	0	0	0	0	0	0	0	0	1
*JNL O ACCOUNTING RE	1	0	0	0	0	0	0	0	0	0	0	0	1
*JNL OF ADVERTIS RES	10	1	0	0	0	0	0	0	0	0	0	0	11

PERIODICALS USAGE - CURRENT SUBSCRIPTION TITLES

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*JNL OF AM HISTORY	1	3	1	3	0	0	0	0	0	0	0	0	8
*JNL OF ANIMAL SCI	0	1	0	0	0	0	0	0	0	0	0	0	1
*JNL O APP BEHAV SCI	0	0	0	0	0	0	0	0	0	2	0	0	2
*JNL OF APPLIED PSY	3	1	0	0	0	0	0	0	0	1	0	0	5
*JNL O ASIAN STUDIES	2	0	0	0	0	0	0	0	0	0	0	0	2
*JNL OF BUSINESS	0	1	0	1	0	0	0	0	0	0	0	0	2
*JNL O COL STU DEVEL	1	0	0	0	0	0	0	0	0	0	0	0	1
*JNL O COMMUNICATION	2	8	0	2	0	0	0	0	1	4	0	0	17
*JNL CONSULT&CLIN PS	12	20	1	3	0	0	0	0	0	3	0	0	39
*JNL COUNSEL & DEVEL	6	12	0	1	0	0	0	0	0	0	0	0	19
*JNL O COUNSEL PSYCH	0	1	0	2	0	0	0	0	0	1	0	0	4
*JNL OF EC EDUCATION	1	0	0	1	0	0	0	0	0	0	0	0	2
*JNL OF ECON ISSUES	1	0	0	0	0	0	0	0	0	0	0	0	1
*JNL OF EC PERSPECT	1	0	0	0	2	0	0	0	0	0	0	0	3
*JNL OF EDUCATION	2	1	0	0	0	0	0	0	0	0	0	0	3
*JNL O ED PSYCHOLOGY	4	4	0	0	1	0	0	0	0	0	0	0	9
*JNL OF ED RESEARCH	1	0	2	0	0	0	0	0	0	0	0	0	3
*J O EXP PSY:ANIMAL	1	0	0	0	0	0	0	0	0	0	0	0	1
*J O EXP PSY:GENERAL	0	1	0	0	0	0	0	0	0	0	0	0	1
*J O EXP PSY:L M & C	1	1	0	0	0	0	0	0	0	0	0	0	2
*JOURNAL OF FINANCE	0	0	0	0	0	0	0	0	0	1	0	0	1
*JNL O GEN EDUCATION	2	0	0	0	0	0	0	0	0	0	0	0	2
*JNL O GENERAL PSYCH	0	0	0	0	0	0	0	0	0	1	0	0	1
*JNL OF GEOGRAPHY	0	1	0	0	0	1	0	0	0	0	0	0	2
*JNL OF HI EDUCATION	2	0	0	1	0	0	0	0	0	0	0	0	3
*JNL OF LATIN AM ST	0	0	0	0	0	0	0	0	1	0	0	0	1
*JNL O LEARN DISABIL	3	3	0	0	0	0	0	0	0	0	8	0	14
*JNL OF MARKETING	5	12	0	2	0	0	0	0	0	0	0	0	19
*JNL O MARKETING RES	5	5	0	0	0	1	0	0	0	0	0	0	11
*JNL O MARR & FAMILY	7	18	0	2	0	0	0	0	0	3	0	0	30
*JNL OF ORGAN CHEM	0	0	0	1	0	0	0	0	0	0	0	0	1
*JNL OF PERSONALITY	2	1	0	0	0	0	0	0	0	0	0	0	3
*JNL O PERS & SO PSY	2	15	4	1	0	0	0	0	0	12	0	0	34
*JNL PHYS ED REC & D	1	6	0	0	0	0	0	0	0	0	12	6	25
*JNL OF POP CULTURE	1	11	0	2	0	0	0	0	0	0	0	0	14
*JNL O POP FILM & TV	0	0	2	1	0	0	0	0	0	0	1	5	9
*JNL OF READING	13	14	1	7	0	0	0	0	0	0	0	0	35
*JNL OF RELIGION	1	2	0	0	0	0	0	0	0	0	0	0	3
*+JNL OF SCH HEALTH	2	13	0	1	0	0	1	3	1	0	0	0	21
*JNL OF SOC HISTORY	1	2	0	0	0	0	0	0	0	0	0	0	3
*JNL OF SOC ISSUES	2	2	0	1	0	0	0	0	0	0	0	0	5
*JNL OF SOC PSYCH	2	0	0	1	0	0	0	0	0	3	0	0	6
*JNL OF SPECIAL ED	1	1	0	0	0	0	0	0	0	0	0	0	2
*JNL OF SPORT HIS	0	1	1	0	0	0	0	0	0	0	0	0	2
*JNL OF STATE GOVT	0	0	0	0	0	0	0	0	0	2	0	0	2
*JNL OF TEACH ED	2	2	1	0	0	0	0	0	0	0	0	0	5
*JNL O T AM AC O REL	0	0	0	0	0	0	0	0	1	1	0	0	2
*JNL OF T AM VET M A	0	4	0	0	0	0	0	0	0	0	0	2	6
*JNL O T HIS O IDEAS	0	2	0	1	0	0	0	0	0	0	0	0	3
*JNL OF TRANSPER PSY	0	1	0	0	0	0	0	0	0	0	0	0	1

PERIODICALS USAGE - CURRENT SUBSCRIPTION TITLES

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*JOURNALISM QTRLY	4	4	2	0	0	0	0	0	0	0	0	0	10
*LANGUAGE	1	0	0	4	0	0	0	0	0	0	0	0	5
*LANGUAGE ARTS	4	7	1	1	0	0	0	0	0	0	0	0	13
*LAW & CONTEMP PROB	0	1	0	0	0	0	0	0	0	0	0	0	1
*LEARNING	1	1	0	0	0	0	0	0	0	0	0	0	2
*LEARN DISABILITY Q	0	0	1	0	0	0	0	0	0	0	0	0	1
*LIBERAL EDUCATION	1	0	0	0	1	0	0	0	0	0	0	0	2
*+LIBRARY JOURNAL	8	9	26	44	0	0	9	7	0	0	0	0	103
*+LIFE	45	35	2	0	0	0	0	0	0	0	117	9	208
*MACLEAN'S	41	21	0	0	0	0	0	0	6	7	82	118	275
*MADEMOISELLE	7	4	0	0	0	0	0	0	1	1	14	16	43
*MAG FAN & SCI FICT	0	0	2	0	0	0	0	0	0	0	0	0	2
*+MANAGEMENT ACCOUNT	0	0	0	1	0	0	3	0	0	1	0	0	5
*+MANAGEMENT REVIEW	0	0	1	2	0	0	0	1	0	0	0	0	4
*MATHEMATICS MAG	0	0	0	0	0	5	0	0	0	0	0	0	5
*MATHEMATICS TEACH	3	1	2	0	0	0	0	0	0	0	0	0	6
*MEDIA & METHODS	4	0	4	6	0	0	0	0	0	0	0	0	14
*MERCURY	0	2	0	0	0	0	0	0	0	0	0	0	2
*MIDDLE EAST JOURNAL	1	0	0	0	0	0	0	0	0	0	0	0	1
*MIDDLE SCH JNL	0	0	0	1	0	0	0	0	0	0	0	0	1
*MIDWEST QUARTERLY	0	1	0	0	0	0	0	0	0	0	0	0	1
*MIND	2	0	0	0	0	0	0	0	0	0	0	0	2
*MODERN FICTION STU	0	7	1	0	0	0	0	0	0	0	0	0	8
*MODERN LANG JOURNAL	5	8	0	0	0	0	0	0	0	0	0	0	13
*MODERN LANG REVIEW	0	0	0	0	1	0	0	0	0	0	0	0	1
*+MONEY	1	0	0	0	0	0	0	0	0	2	27	20	50
*MONTH LABOR REVIEW	22	4	0	0	0	0	0	0	1	2	0	0	29
*MOSAIC	1	0	0	0	0	0	0	0	0	0	0	0	1
*MS.	27	14	0	0	0	0	0	0	1	3	27	35	107
*MUSIC EDUCATORS JNL	1	0	0	0	0	0	0	0	0	0	0	0	1
*N A S P A JOURNAL	1	0	0	0	2	0	0	0	0	0	0	0	3
*N A S S P BULLETIN	6	4	0	0	3	0	0	0	0	0	0	0	13
*+NATION	56	18	0	0	0	0	0	1	1	3	40	38	157
*NATIONAL GEOGRAPHIC	10	15	0	3	0	0	0	0	0	0	22	62	112
*NATIONAL GEOG WORLD	2	0	0	0	0	0	0	0	0	0	2	2	6
*NATIONAL REVIEW	25	11	0	0	0	0	0	0	1	6	64	103	210
*NATIONAL WILDLIFE	0	0	0	0	0	0	0	0	0	5	7	8	20
*NATION'S BUSINESS	19	18	1	2	0	0	0	0	5	2	0	0	47
*NATURAL HISTORY	10	5	0	0	0	0	0	0	0	2	6	3	26
*NEW AMERICAN	0	0	2	3	0	0	0	0	0	0	0	0	5
*NEW DIR FOR HI ED	0	1	2	1	0	0	0	0	0	0	0	0	4
*NEW ENGLAND EC REV	2	0	1	0	0	0	0	0	0	0	0	0	3
*NEW LITERARY HIST	1	1	0	0	0	0	0	0	0	0	0	0	2
*NEW PERSPECTIVES Q	0	1	0	0	0	0	0	0	0	0	0	0	1
*+NEW REPUBLIC	29	11	0	1	0	0	0	2	7	10	40	96	196
*NEW STATESMAN & SOC	0	5	2	7	0	0	0	0	1	2	0	0	17
*N Y REVIEW OF BOOKS	10	4	0	0	0	0	0	0	0	0	0	0	14
*N Y THEATRE CRI REV	1	0	0	1	0	0	0	0	0	0	0	0	2
*NEW YORKER	38	18	0	2	0	0	0	0	2	2	0	0	62
*+NEWSWEEK	186	97	0	0	0	0	0	1	35	15	498	558	1,390

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*19TH CENTURY LIT	2	1	0	0	0	0	0	0	0	0	0	0	3
*NORTHWEST OH QTRLY	0	2	0	0	0	0	0	0	0	0	0	0	2
*NOVEL	1	0	0	0	0	0	0	0	0	0	0	0	1
*OCCUPAT OUTLOOK Q	0	0	0	0	0	0	0	0	1	1	0	0	2
*OCLC MICRO	0	0	9	13	0	0	0	0	0	0	0	0	22
*OFFICE	4	0	1	1	0	0	0	0	0	4	0	0	10
*OHIO	0	0	0	2	0	0	0	0	0	0	0	0	2
*OH HI SCH ATHLETE	0	0	6	0	0	0	0	0	0	0	0	0	6
*OHIO HISTORY	0	4	0	0	0	0	0	0	0	0	0	0	4
*OH JNL OF SCIENCE	1	1	0	0	0	0	0	0	0	0	0	0	2
*OHIO MONITOR	0	0	0	1	0	0	0	0	0	0	0	0	1
*OLYMPIAN	0	0	1	4	0	0	0	0	0	0	0	0	5
*OMEGA	1	1	0	2	0	0	0	0	0	0	0	0	4
*OMNI	15	2	0	0	0	0	0	0	1	0	14	32	64
*P M L A	0	0	0	0	0	0	0	0	0	0	0	0	1
*PACIFIC AFFAIRS	2	0	1	0	0	0	0	0	0	0	0	0	3
*PACIFIC HIST REVIEW	0	0	0	0	0	0	0	0	0	1	0	0	1
*PAINT HORSE JOURNAL	0	0	0	0	0	0	0	0	0	0	7	13	20
*+PARENTS	6	1	0	0	0	0	16	35	2	2	442	76	580
*PARKS & RECREATION	0	5	0	0	0	0	0	0	0	0	0	0	5
*PEOPLE WEEKLY	78	37	0	0	0	0	0	0	6	4	94	136	355
*PERCEPT & MOTOR SK	2	0	0	0	0	0	0	0	0	0	0	0	2
*PERSONNEL	10	8	0	1	0	0	0	0	0	1	0	0	20
*PERSONNEL MANAGEMT	0	0	0	1	0	0	0	0	0	0	0	0	1
*PERSONNEL PSYCH	1	1	0	0	0	0	0	0	0	0	0	0	2
*PHI DELTA KAPPAN	47	21	0	0	0	2	0	0	4	4	5	38	121
*PHILOSOPHY	0	0	1	0	0	0	0	0	0	0	0	0	1
*PHYSICAL EDUCATOR	0	0	0	0	0	0	0	0	0	0	7	15	22
*PHYSICAN & SPORTS M	0	4	0	0	0	0	0	0	0	0	5	4	13
*PHYSICS TODAY	3	2	2	0	0	0	0	0	0	0	0	0	7
*POETRY	1	1	0	0	0	0	0	0	0	0	0	1	3
*POLITICAL SCI Q	3	0	0	0	0	0	0	0	1	1	0	0	5
*POLLUTION ENGINEER	1	0	1	0	0	0	0	0	0	0	0	0	2
*POPULAR PHOTOGRAPHY	0	0	4	0	0	0	0	0	0	0	0	0	4
*POPULATION BULLETIN	1	0	0	0	0	0	0	0	0	0	0	0	1
*PRACTICAL ACCOUNTNT	0	1	0	0	0	0	0	0	0	0	0	0	1
*PREVENTION	1	5	0	0	0	0	0	0	0	0	8	5	19
*PRINCIPAL	0	1	2	0	0	0	0	0	0	0	0	0	3
*PROB OF COMMUNISM	8	2	0	1	0	0	0	0	0	0	0	0	11
*+PROGRESSIVE		2	2	7	0	0	13	8	1	2	0	0	38
*PSYCHOLOGICAL BULL	4	5	0	0	1	0	0	0	0	0	0	0	10
*PSYCHOLOGICAL RPTS	6	5	0	0	0	0	0	0	1	5	0	0	17
*PSYCHOLOGICAL REV	2	5	0	0	0	0	0	0	0	0	0	0	7
*PSYCHOLOGY TODAY	60	40	0	0	0	0	0	0	3	11	49	77	240
*PUBLIC ADMIN REV	1	0	0	0	0	0	0	0	1	0	0	0	2
*PUBLIC HEALTH RPTS	10	3	0	0	0	0	0	0	1	3	0	0	17
*PUBLIC OPINION Q	6	9	0	1	0	0	0	0	0	0	0	0	16
*PUBLIC WELFARE	0	3	0	0	0	0	0	0	0	0	0	0	3
*PUBLISHERS WKLY	42	22	83	33	0	0	0	0	0	1	0	0	181
*QUARTER HORSE JNL	3	10	0	0	0	0	0	0	0	0	22	31	66

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*QTRLY JNL OF SPEECH	1	0	0	0	0	0	0	0	0	0	0	0	1
^READER'S DIGEST	49	25	0	0	0	0	0	0	3	0	49	42	168
*READING RES QTRLY	0	0	1	0	1	1	0	0	0	0	0	0	3
*READING TEACHER	7	22	0	9	0	1	0	0	0	0	0	0	39
*RELIGIOUS EDUCATION	0	0	0	0	0	0	0	0	0	1	0	0	1
*RES IN T TEACH ENG	0	1	0	0	1	0	0	0	0	0	0	0	2
^RES Q FOR EX & SPT	1	0	0	0	0	0	0	0	0	0	0	0	1
^+ROLLING STONE	0	0	0	0	0	0	49	37	2	0	45	154	287
*ROTARIAN	0	0	0	1	0	0	0	0	0	0	0	0	1
*RURAL SOCIOLOGY	0	0	1	0	0	0	0	0	0	0	0	0	1
^SCHOLASTIC COACH	2	3	0	0	0	0	0	0	0	0	16	14	35
*+SCHOLASTIC UPDATE	2	0	2	1	0	0	3	2	1	0	0	0	11
*+SCHOOL ARTS	1	0	0	0	0	0	1	0	0	0	0	0	2
*SCHOOL LIBRARY JNL	7	0	8	11	0	0	0	0	0	0	0	0	26
*SCHOOL SCI & MATH	3	1	0	0	0	0	0	0	0	0	0	0	4
*+SCIENCE	30	33	2	0	0	0	20	31	0	12	0	0	128
*SCIENCE & CHILDREN	1	0	0	0	1	0	0	0	0	0	0	0	2
*SCIENCE BKS & FILMS	0	0	6	9	0	0	0	0	0	0	0	0	15
*SCIENCE EDUCATION	1	0	0	0	0	0	0	0	0	0	0	0	1
^SCIENCE NEWS	69	32	0	0	0	0	0	0	4	8	97	124	334
*SCIENCE TEACHER	3	3	3	0	0	0	0	0	0	0	0	0	9
^SCIENCES, THE	0	2	0	0	0	0	0	0	0	0	4	1	7
^SCIENTIFIC AM	17	6	0	0	0	0	0	0	5	2	35	28	93
*SEA FRONTIERS	3	0	1	0	0	0	0	0	0	0	0	0	4
*SHAKESPEARE QTRLY	3	0	0	0	0	0	0	0	0	0	0	0	3
*SHARING THE VICTORY	0	0	1	0	0	0	0	0	0	0	0	0	1
*SIGNS	0	1	0	0	0	0	0	0	0	0	0	0	1
^SKY AND TELESCOPE	0	3	0	0	0	0	0	0	0	0	69	4	76
*SMITHSONIAN	11	9	0	1	0	0	0	0	0	0	0	0	21
*SOCIAL EDUCATION	0	3	1	1	0	0	0	0	0	1	0	0	6
*SOCIAL FORCES	7	9	2	4	0	0	0	0	0	1	0	0	23
*+SOCIAL POLICY	1	2	1	4	0	1	0	4	0	3	0	0	16
*SOCIAL PROBLEMS	23	2	1	4	0	1	0	0	1	2	0	0	34
*SOCIAL RESEARCH	3	1	0	0	0	0	0	0	0	0	0	0	4
*SOCIAL SERVICE REV	0	2	0	0	0	0	0	0	0	1	0	0	3
*SOCIAL STUDIES	1	2	0	0	0	0	0	0	0	1	0	0	4
^SOCIAL WORK	14	4	0	0	0	0	0	0	1	5	7	14	45
^SOCIETY	11	4	0	0	0	0	0	0	2	2	12	45	76
*SOCIOLOGY & SOC RES	2	9	0	0	0	0	0	0	0	1	0	0	12
*SOCIOLOGY OF ED	1	1	0	0	0	0	0	0	0	0	0	0	2
*SOIL&WAT CONSERV N	1	0	0	0	0	0	0	0	0	0	0	0	1
^SOUTHERN HORSEMAN	0	0	0	0	0	0	0	0	0	0	6	0	6
*SOVIET LIFE	2	1	0	0	0	0	0	0	0	0	0	0	3
^SOVIET SPORTS REV	0	0	0	0	0	0	0	0	0	0	0	3	3
^+SPORTS ILLUSTRATED	74	16	0	0	0	0	2	4	4	6	143	223	472
*STUD IN PHILOLOGY	0	0	1	2	0	0	0	0	0	0	0	0	3
^STUDIO POTTER	0	0	0	0	0	0	0	0	0	0	0	4	4
*SURVEY O CURR BUS	0	2	0	2	0	0	0	0	0	0	0	0	4
*T.H.E. JOURNAL	0	0	1	0	0	0	0	0	0	0	0	0	1
*TAXATION F ACCOUNT	0	0	1	0	0	0	0	0	0	0	0	0	1

PERIODICALS USAGE - CURRENT SUBSCRIPTION TITLES

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV A	'89/90 YR TL
*TAXES; THE TAX MAG	0	0	2	0	0	0	0	0	0	0	0	0	2
*TECH COMMUNICATION	4	0	0	0	0	0	0	0	0	0	0	0	4
^TECHNOLOGY REVIEW	15	9	0	0	0	0	0	0	0	2	10	6	42
*TECHTRENDS	0	0	8	11	0	0	0	0	0	0	0	0	19
*TESOL QUARTERLY	11	25	1	1	0	0	0	0	0	0	0	0	38
*THEATRE CRAFTS	0	3	0	5	1	0	0	0	0	0	0	0	9
*THEORY INTO PRACT	1	0	0	0	0	0	0	0	0	0	0	0	1
*THRUST	7	0	0	0	0	0	0	0	0	0	0	0	7
^+TIME	212	89	0	0	0	0	4	11	15	16	362	596	1,305
*TIMELINE	0	0	0	1	0	0	0	0	0	0	0	0	1
^+TODAY'S EDUCATION	1	0	0	0	0	0	0	0	0	0	0	0	1
*TWENTIETH CEN LIT	6	1	0	0	0	0	0	0	0	0	0	0	7
*U N CHRONICLE	11	3	0	1	0	0	0	0	0	0	0	0	14
^U S A TODAY	34	6	0	0	0	0	0	0	10	4	60	121	235
^U S NEWS & WLD RPT	150	77	2	0	0	0	0	0	18	13	357	342	959
*UNESCO COURIER	3	1	0	0	0	0	0	0	2	0	0	0	6
*URBAN EDUCATION	1	0	0	0	0	0	0	0	0	0	0	0	1
^VETERINARY MEDICINE	1	1	0	0	0	0	0	0	0	0	0	5	7
*VICTORIAN STUDIES	0	0	1	0	0	0	0	0	0	0	0	0	1
^VITAL SPEECHES	8	3	0	0	0	0	0	0	5	3	24	8	51
*WASHINGTON MONTHLY	8	1	4	2	0	0	0	0	1	0	0	0	16
*WASTE AGE	0	0	1	1	0	0	0	0	0	0	0	0	2
*WATER/ENG & MGMT	2	1	3	1	0	0	0	0	0	0	0	0	7
^WESTERN HORSEMAN	0	2	0	0	0	0	0	0	0	0	2	0	4
^WILDERNESS	7	2	0	0	0	0	0	0	0	0	5	9	23
*WILLIAM & MARY Q	2	0	0	0	0	0	0	0	0	0	0	0	2
*WILSON BULLETIN	0	0	2	0	0	0	0	0	0	0	0	0	2
*WILSON LIBRARY BUL	15	4	16	24	0	0	0	0	2	0	0	0	61
*WOMAN CPA	1	0	0	0	0	0	0	0	0	0	0	0	1
^WOMEN'S SPORT & FIT	4	3	0	0	0	0	0	0	0	0	8	6	21
*+WORLD HEALTH	2	0	0	1	0	0	0	2	0	1	0	0	6
*WORLD MARXIST REV	2	2	0	3	0	0	0	0	7	1	0	0	15
*WORLD POLITICS	1	1	0	0	0	0	0	0	0	0	0	0	2
*+WORLD PRESS REVIEW	4	6	1	14	0	0	11	5	1	5	0	0	47
*+WRITER	5	0	1	0	0	0	1	0	0	0	0	0	7
*YALE REVIEW	1	0	0	0	0	0	0	0	0	0	0	0	1
*+YOUNG CHILDREN	1	0	0	0	0	0	1	0	0	0	0	0	2
COMPONENT TTLS	2,932	1,824	498	606	16	30	436	446	278	362	3,884	4,145	15,457
CURRENT SUBSCRIPTION	4,756		1,104		46		882		640		8,029		15,457

	I989 FALL BD VOL	I990 SPR BD VOL	I989 FALL CUR ISS	I990 SPR CUR ISS	I989 FALL ILL	I990 SPR ILL	I989 FALL MFLM	I990 SPR MFLM	I989 FALL PRISONS	I990 SPR PRISONS	I989 FALL RESERV	I990 SPR RESERV	I989/90 ACA YR TTL

* CURRENT SUB TITLE
^ RESERVE TITLE
\+ MICROFORM TITLE

APPENDIX C

TITLES INDEXED BY INFOTRAC SPREADSHEET

	1989 FALL BD VOL	1990 SPR BD VOL	1989 FALL CUR ISS	1990 SPR CUR ISS	1989 FALL ILL	1990 SPR ILL	1989 FALL MFLM	1990 SPR MFLM	1989 FALL PRI-SONS	1990 SPR PRI-SONS	1989 FALL RES-ERVE	1990 SPR RES-ERVE	1989/90 ACA YEAR TTL
*+ADVERTISING AGE	4	0	0	0	0	0	26	18	0	1	47	69	165
*+AMERICA	23	16	1	2	0	0	8	15	0	2	0	0	67
*AMERICAN ANTHROPOL	2	3	1	0	0	0	0	0	2	2	0	0	10
*AMERICAN ARTIST	13	1	0	0	0	0	0	0	0	0	8	2	24
*AM BEHAVIORAL SCI	5	5	0	0	0	1	0	0	1	2	0	0	14
*AM ECONOMIC REV	6	2	1	0	0	0	0	0	0	1	0	0	10
*AMERICAN HERITAGE	14	7	1	0	0	0	0	0	0	0	0	0	22
*AM HISTORICAL REV	4	1	1	3	0	0	0	0	0	0	0	0	9
*AM JNL O PSYCHOLOGY	5	3	0	0	0	0	0	0	0	1	0	0	9
*AM JNL O SOCIOLOGY	8	1	0	0	0	0	0	0	0	2	0	0	11
*AMERICAN LITERATURE	3	2	0	0	0	2	0	0	0	0	0	0	7
*AM POL SCI REVIEW	4	3	0	1	0	0	0	0	0	0	0	0	8
*AM PSYCHOLOGIST	10	18	2	1	0	0	0	0	1	4	0	0	36
*AM QUARTERLY	0	0	1	2	0	0	0	0	0	0	0	0	3
*AMERICAN SCHOLAR	2	5	0	1	0	0	0	0	0	1	0	0	9
*AMERICAN SCIENTIST	6	0	0	0	0	0	0	0	0	0	0	0	6
*AM SOCIOLOGICAL REV	11	11	0	0	0	0	0	0	0	6	0	0	28
*AMERICAS	6	1	0	2	0	0	0	0	0	0	0	0	9
*ANALOG SCI FIC/FACT	14	0	3	0	0	0	0	0	0	0	0	0	17
*ANNALS A S P & S S	11	0	0	0	0	0	0	0	0	0	0	0	11
*+ARITHMETIC TEACHER	2	11	0	4	0	0	0	5	0	0	0	0	22
*ART EDUCATION	1	1	0	0	0	0	0	0	0	0	0	0	2
*ART IN AMERICA	8	2	0	0	0	0	0	0	0	0	28	13	51
*ART NEWS	9	4	0	0	0	0	0	0	0	0	25	34	72
*ARTFORUM	11	8	0	6	0	0	0	0	0	0	0	0	25
*ARTS MAGAZINE	7	1	0	1	0	0	0	0	0	0	0	0	9
*ASTRONOMY	2	1	0	0	0	0	0	0	0	0	72	6	81
*ATLANTIC	27	7	6	10	0	0	0	0	0	0	0	0	50
*AUDUBON	12	11	0	0	0	0	0	0	1	2	4	7	37
*AZTLAN	0	0	0	1	0	0	0	0	0	0	0	0	1
*BIOSCIENCE	8	3	1	0	0	0	0	0	0	1	0	0	13
*BLACK COLLEGIAN	3	0	0	0	0	0	0	0	0	0	2	7	12
*+BLACK ENTERPRISE	3	1	1	0	0	0	8	0	3	1	0	0	17
*BLACK SCHOLAR	2	0	0	0	0	0	0	0	0	4	0	0	6
*BROADCASTING	55	3	2	4	0	0	0	0	0	0	0	0	64
*+BULLET ATOMIC SCI	5	13	2	3	0	0	4	0	0	1	0	0	28
*BUSINESS WEEK	43	28	0	1	0	1	0	0	10	12	209	245	549
*+BYTE	3	0	0	0	0	0	1	1	0	3	17	6	31
*CAR AND DRIVER	4	7	5	13	0	0	0	0	0	0	0	0	29
-CENTER MAGAZINE	2	2	0	0	0	0	0	0	0	0	0	0	4
*CHALLENGE	3	4	1	0	0	2	0	0	1	0	0	0	11
*CHANGE	3	3	0	0	0	1	0	0	0	0	1	5	13
*+CHANGING TIMES	12	6	4	1	0	0	18	5	2	0	0	0	48
*CHILD DEVELOPMENT	8	14	0	1	0	0	0	0	0	1	0	0	24
*CHILD WELFARE	5	18	0	2	0	0	0	0	0	1	0	0	26
*CHILDHOOD EDUCATION	0	4	2	0	0	0	0	0	0	0	0	0	6
*+CHILDREN TODAY	6	10	0	4	0	0	14	3	0	1	0	0	38

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*+CHRISTIAN CENTURY	28	23	7	4	0	0	28	28	0	5	0	0	123
*+CHRISTIANITY TODAY	14	22	6	9	0	0	40	31	1	2	0	0	125
*+CHRONICLE OF HI ED	0	0	85	67	0	0	39	38	0	0	0	0	229
*CLEARING HOUSE	37	9	0	0	0	0	0	0	0	0	1	7	54
*+COLLEGE ENGLISH	1	3	0	0	0	0	0	2	1	0	0	0	7
*COMMONWEAL	26	15	2	3	0	0	0	0	0	0	0	0	46
*COMMUNICATION ED	4	2	0	1	0	0	0	0	0	0	0	0	7
*COMM OF THE ACM	2	0	0	0	0	0	0	0	0	1	0	0	3
*COMPAR ST SOC & HIS	1	1	0	0	0	0	0	0	0	0	0	0	2
*CONGRESSION DIGEST	1	6	0	0	0	0	0	0	1	0	13	0	21
*CONGRESS Q WK RPT	13	25	2	2	0	0	0	0	2	1	0	0	45
*+CONSUMER REPORTS	1	0	0	0	0	0	6	14	0	1	42	20	84
*CURRENT	6	4	0	0	0	0	0	0	1	0	0	0	11
*CURRENT ANTHROPOLOG	0	6	0	0	0	0	0	0	0	2	0	0	8
*CURRENT HISTORY	5	5	0	0	0	0	0	0	1	1	5	7	24
*DAEDALUS	2	0	1	2	0	0	0	0	0	0	0	0	5
*DATAMATION	23	2	2	2	0	0	0	0	2	1	0	0	32
-DEPT OF STATE BUL	23	2	2	1	0	0	0	0	0	0	0	0	28
*DISCOVER	10	2	0	0	0	0	0	0	8	4	42	42	108
*DISSENT	0	1	0	0	0	0	0	0	0	1	0	0	2
*+DOWNBEAT	0	0	0	1	0	0	3	5	0	1	0	0	10
*+EBONY	0	0	0	0	0	0	19	8	1	4	18	34	84
*ECON INDICATORS	0	0	0	1	0	0	0	0	0	0	0	0	1
*+ECONOMIST	75	69	16	22	0	2	31	30	7	15	0	0	267
*EDUCATION DIGEST	14	7	0	0	0	0	0	0	6	2	57	53	139
*ED & PSYCH MEASURE	3	1	0	0	0	1	0	0	0	0	0	0	5
*+ED LEADERSHIP	2	3	2	3	0	0	3	27	0	0	0	0	40
*ELEMENTARY SCH JNL	2	3	0	0	0	0	0	0	0	0	0	0	5
*ENCOUNTER	3	2	0	0	0	0	0	0	0	3	0	0	8
*ENGLISH JOURNAL	14	6	1	2	0	0	0	0	0	0	0	0	23
*ENVIRONMENT	14	1	0	0	0	0	0	0	2	5	30	44	96
*ESQUIRE	9	4	0	0	0	0	0	0	0	5	11	10	39
*ESSAYS IN CRITICISM	2	0	1	2	0	0	0	0	0	0	0	0	5
*+EXCEPTIONAL CHILDR	3	2	0	0	0	0	3	0	0	0	0	0	8
*EXPLICATOR	5	2	0	0	0	0	0	0	0	0	0	0	7
*EXTRAPOLATION	3	0	0	0	0	0	0	0	0	0	0	0	3
*FDA CONSUMER	5	0	0	0	0	0	0	0	1	1	0	0	7
*FEDERAL RESERVE BUL	5	0	0	0	0	0	0	0	0	0	0	0	5
*FEMINIST STUDIES	3	2	0	1	0	0	0	0	0	0	0	0	6
*FILM COMMENT	1	0	0	0	0	0	0	0	0	0	8	2	11
*FILM QUARTERLY	3	0	1	0	0	0	0	0	0	0	0	0	4
*+FORBES	15	20	6	0	0	0	23	24	13	3	0	0	104
*FOREIGN AFFAIRS	13	4	0	2	0	0	0	0	0	0	0	0	19
*FOREIGN POLICY	7	1	1	1	0	0	0	0	1	0	0	0	11
*FORTUNE	47	15	0	0	0	0	0	0	7	1	74	134	278
*+FUTURIST	7	4	0	0	0	0	15	11	4	6	0	0	47
*GERONTOLOGIST	2	5	1	10	0	0	0	0	5	0	0	0	23
*HARPER'S	26	19	6	4	0	0	0	0	3	0	0	0	58
*HARVARD BUS REVIEW	19	32	0	3	0	0	0	0	2	1	0	0	57
*HASTINGS CENTER RPT	2	10	2	1	0	0	0	0	2	0	0	0	17

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*HEALTH	24	9	0	0	0	0	0	0	2	2	26	43	106
*HISTORY TODAY	4	3	1	1	0	0	0	0	0	0	0	0	9
*HORN BOOK MAGAZINE	5	3	0	0	0	0	0	0	0	0	0	0	8
*HUDSON REVIEW	5	1	0	0	0	0	0	0	0	0	0	0	6
*HUMAN ORGANIZATION	2	1	0	0	0	0	0	0	0	0	0	0	3
*+HUMANIST	6	8	2	0	0	0	8	12	0	2	0	0	38
*INQUIRY	0	0	1	2	0	0	0	0	0	0	0	0	3
*INSTRUCTOR	18	3	0	0	0	0	0	0	0	0	10	23	54
*INTERNATL AFFAIRS	3	2	0	0	0	0	0	0	0	0	0	0	5
*INTERNATL WILDLIFE	3	6	0	0	0	0	0	0	0	0	1	4	14
*JNL OF ABNOR PSY	6	16	0	1	0	0	0	0	0	0	0	0	23
*JNL OF ADVERTIS RES	10	1	0	0	0	0	0	0	0	0	0	0	11
*JNL OF AM HISTORY	1	3	1	3	0	0	0	0	0	0	0	0	8
*JNL OF APPLIED PSY	3	1	0	0	0	0	0	0	0	1	0	0	5
*JNL O ASIAN STUDIES	2	0	0	0	0	0	0	0	0	0	0	0	2
*JNL OF BUSINESS	0	1	0	1	0	0	0	0	0	0	0	0	2
*JNL O COMMUNICATION	2	8	0	2	0	0	0	0	1	4	0	0	17
*JNL CONSULT&CLIN PS	12	20	1	3	0	0	0	0	0	3	0	0	39
*JNL COUNSEL & DEVEL	6	12	0	1	0	0	0	0	0	0	0	0	19
*JNL OF EDUCATION	2	1	0	0	0	0	0	0	0	0	0	0	3
*JNL O ED PSYCHOLOGY	4	4	0	0	1	0	0	0	0	0	0	0	9
*JNL OF HI EDUCATION	2	0	0	1	0	0	0	0	0	0	0	0	3
*JNL OF MARKETING	5	12	0	2	0	0	0	0	0	0	0	0	19
*JNL O MARR & FAMILY	7	18	0	2	0	0	0	0	0	3	0	0	30
*JNL OF PERSONALITY	2	1	0	0	0	0	0	0	0	0	0	0	3
*JNL O PERS & SO PSY	2	15	4	1	0	0	0	0	0	12	0	0	34
*JNL OF POP CULTURE	1	11	0	2	0	0	0	0	0	0	0	0	14
*JNL O POP FILM & TV	0	0	2	1	0	0	0	0	0	0	1	5	9
*JNL OF READING	13	14	1	7	0	0	0	0	0	0	0	0	35
*JNL OF RELIGION	1	2	0	0	0	0	0	0	0	0	0	0	3
*+JNL OF SCH HEALTH	2	13	0	1	0	0	1	3	1	0	0	0	21
*JNL OF SOC ISSUES	2	2	0	1	0	0	0	0	0	0	0	0	5
*JNL OF TEACH ED	2	2	1	0	0	0	0	0	0	0	0	0	5
*JNL O T HIS O IDEAS	0	2	0	1	0	0	0	0	0	0	0	0	3
*JOURNALISM QTRLY	4	4	2	0	0	0	0	0	0	0	0	0	10
*LANGUAGE ARTS	4	7	1	1	0	0	0	0	0	0	0	0	13
*+LIBRARY JOURNAL	8	9	26	44	0	0	9	7	0	0	0	0	103
*+LIFE	45	35	2	0	0	0	0	0	0	0	117	9	208
*MACLEAN'S	41	21	0	0	0	0	0	0	6	7	82	118	275
*MIDDLE EAST JOURNAL	1	0	0	0	0	0	0	0	0	0	0	0	1
*MODERN FICTION STU	0	7	1	0	0	0	0	0	0	0	0	0	8
-MODERN PHOTOGRAPHY	0	0	0	1	0	0	0	0	0	0	0	0	1
*MONTH LABOR REVIEW	22	4	0	0	0	0	0	0	1	2	0	0	29
*MS.	27	14	0	0	0	0	0	0	1	3	27	35	107
*N A S S P BULLETIN	6	4	0	0	3	0	0	0	0	0	0	0	13
*+NATION	56	18	0	0	0	0	0	1	1	3	40	38	157
*NATIONAL GEOGRAPHIC	10	15	0	3	0	0	0	0	0	0	22	62	112
*NATIONAL REVIEW	25	11	0	0	0	0	0	0	1	6	64	103	210
*NATIONAL WILDLIFE	0	0	0	0	0	0	0	0	0	5	7	8	20
*NATION'S BUSINESS	19	18	1	2	0	0	0	0	5	2	0	0	47

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*NATURAL HISTORY	10	5	0	0	0	0	0	0	0	2	6	3	26
*NEW PERSPECTIVES Q	0	1	0	0	0	0	0	0	0	0	0	0	1
*+NEW REPUBLIC	29	11	0	1	0	0	0	2	7	10	40	96	196
-NEW STATESMAN	30	23	1	2	0	0	0	0	0	0	0	0	56
*NEW STATESMAN & SOC	0	5	2	7	0	0	0	0	1	2	0	0	17
*N Y REVIEW OF BOOKS	10	4	0	0	0	0	0	0	0	0	0	0	14
*NEW YORKER	38	18	0	2	0	0	0	0	2	2	0	0	62
*+NEWSWEEK	186	97	0	0	0	0	0	1	35	15	498	558	1,390
*19TH CENTURY LIT	2	1	0	0	0	0	0	0	0	0	0	0	3
*NOVEL	1	0	0	0	0	0	0	0	0	0	0	0	1
*OMEGA	1	1	0	2	0	0	0	0	0	0	0	0	4
*OMNI	15	2	0	0	0	0	0	0	1	0	14	32	64
*PACIFIC AFFAIRS	2	0	1	0	0	0	0	0	0	0	0	0	3
*PACIFIC HIST REVIEW	0	0	0	0	0	0	0	0	0	1	0	0	1
*+PARENTS	6	1	0	0	0	0	16	35	2	2	442	76	580
*PEOPLE WEEKLY	78	37	0	0	0	0	0	0	6	4	94	136	355
*PERSONNEL	10	8	0	1	0	0	0	0	0	1	0	0	20
*PHI DELTA KAPPAN	47	21	0	0	0	2	0	0	4	4	5	38	121
*PHYSICS TODAY	3	2	2	0	0	0	0	0	0	0	0	0	7
*POETRY	1	1	0	0	0	0	0	0	0	0	0	1	3
*POLITICAL SCI Q	3	0	0	0	0		0	0	1	1	0	0	5
*POPULAR PHOTOGRAPHY	0	0	4	0	0	0	0	0	0	0	0	0	4
*POPULATION BULLETIN	1	0	0	0	0	0	0	0	0	0	0	0	1
*PROB OF COMMUNISM	8	2	0	1	0	0	0	0	0	0	0	0	11
*+PROGRESSIVE	3	2	2	7	0	0	13	8	1	2	0	0	38
*PSYCHOLOGICAL BULL	4	5	0	0	1	0	0	0	0	0	0	0	10
*PSYCHOLOGICAL REV	2	5	0	0	0	0	0	0	0	0	0	0	7
*PSYCHOLOGY TODAY	60	40	0	0	0	0	0	0	3	11	49	77	240
*PUBLIC ADMIN REV	1	0	0	0	0	0	0	0	1	0	0	0	2
*PUBLIC HEALTH RPTS	10	3	0	0	0	0	0	0	1	3	0	0	17
*PUBLIC OPINION Q	6	9	0	1	0	0	0	0	0	0	0	0	16
*PUBLISHERS WKLY	42	22	83	33	0	0	0	0	0	1	0	0	181
*QTRLY JNL OF SPEECH	1	0	0	0	0	0	0	0	0	0	0	0	1
*READER'S DIGEST	49	25	0	0	0	0	0	0	3	0	49	42	168
*READING TEACHER	7	22	0	9	0	1	0	0	0	0	0	0	39
*+ROLLING STONE	0	0	0	0	0	0	49	37	2	0	45	154	287
-+SATURDAY REVIEW	9	0	0	0	0	0	0	1	0	0	0	0	10
*SCHOLASTIC COACH	2	3	0	0	0	0	0	0	0	0	16	14	35
*SCHOOL SCI & MATH	3	1	0	0	0	0	0	0	0	0	0	0	4
*+SCIENCE	30	33	2	0	0	0	20	31	0	12	0	0	128
-SCIENCE DIGEST	49	2	0	0	0	0	0	0	0	0	0	0	51
*SCIENCE NEWS	69	32	0	0	0	0	0	0	4	8	97	124	334
*SCIENCE TEACHER	3	3	3	0	0	0	0	0	0	0	0	0	9
*SCIENTIFIC AM	17	6	0	0	0	0	0	0	5	2	35	28	93
*SEA FRONTIERS	3	0	1	0	0	0	0	0	0	0	0	0	4
*SHAKESPEARE QTRLY	3	0	0	0	0	0	0	0	0	0	0	0	3
*SIGNS	0	1	0	0	0	0	0	0	0	0	0	0	1
*SKY AND TELESCOPE	0	3	0	0	0	0	0	0	0	0	69	4	76
*SMITHSONIAN	11	9	0	1	0	0	0	0	0	0	0	0	21
-+SOCIAL CASEWORK	3	4	1	0	0	0	0	5	0	2	0	0	15

	'89 FA BD VOL	'90 SP BD VOL	'89 FALL CUR ISS	'89 SPR CUR ISS	'89 FALL ILL	'90 SPR ILL	'89 FALL MFLM	'90 SPR MFLM	'89 FALL PRISONS	'90 SPR PRISONS	'89 FA RESERV	'90 SP RESERV	'89/90 A YR TL
*SOCIAL EDUCATION	0	3	1	1	0	0	0	0	0	1	0	0	6
*SOCIAL FORCES	7	9	2	4	0	0	0	0	0	1	0	0	23
*+SOCIAL POLICY	1	2	1	4	0	1	0	4	0	3	0	0	16
*SOCIAL PROBLEMS	23	2	1	4	0	1	0	0	1	2	0	0	34
*SOCIAL STUDIES	1	2	0	0	0	0	0	0	0	1	0	0	4
*SOCIAL WORK	14	4	0	0	0	0	0	0	1	5	7	14	45
*SOCIETY	11	4	0	0	0	0	0	0	2	2	12	45	76
*SOCIOLOGY & SOC RES	2	9	0	0	0	0	0	0	0	1	0	0	12
*+SPORTS ILLUSTRATED	74	16	0	0	0	0	2	4	4	6	143	223	472
*SURVEY O CURR BUS	0	2	0	2	0	0	0	0	0	0	0	0	4
*TECHNOLOGY REVIEW	15	9	0	0	0	0	0	0	0	2	10	6	42
*+TIME	212	89	0	0	0	0	4	11	15	16	362	596	1,305
*TWENTIETH CEN LIT	6	1	0	0	0	0	0	0	0	0	0	0	7
*U N CHRONICLE	11	3	0	1	0	0	0	0	0	0	0	0	14
*U S A TODAY	34	6	0	0	0	0	0	0	10	4	60	121	235
*U S NEWS & WLD RPT	150	77	2	0	0	0	0	0	18	13	357	342	959
*UNESCO COURIER	3	1	0	0	0	0	0	0	2	0	0	0	6
*VITAL SPEECHES	8	3	0	0	0	0	0	0	5	3	24	8	51
*WASHINGTON MONTHLY	8	1	4	2	0	0	0	0	1	0	0	0	16
*WILDERNESS	7	2	0	0	0	0	0	0	0	0	5	9	23
*WILLIAM & MARY Q	2	0	0	0	0	0	0	0	0	0	0	0	2
*WILSON LIBRARY BUL	15	4	16	24	0	0	0	0	2	0	0	0	61
*WOMEN'S SPORT & FIT	4	3	0	0	0	0	0	0	0	0	8	6	21
*WORLD POLITICS	1	1	0	0	0	0	0	0	0	0	0	0	2
*+WORLD PRESS REVIEW	4	6	1	14	0	0	11	5	1	5	0	0	47
*YALE REVIEW	1	0	0	0	0	0	0	0	0	0	0	0	1
COMPONENT TOTALS	2,003	1,672	356	414	5	15	422	432	252	320	3,558	3,948	14,196
INFOTRAC TOTALS	4,475		770		20		854		572		7,506		14,196

	1989 FALL BD VOL	1990 SPR BD VOL	1989 FALL CUR ISS	1990 SPR CUR ISS	1989 FALL ILL	1990 SPR ILL	1989 FALL MFLM	1990 SPR MFLM	1989 FALL PRISONS	1990 SPR PRISONS	1989 FALL RESERV	1990 SPR RESERV	1989/90 ACA YR TTL

* CURRENT SUB TITLE
* RESERVE TITLE
+ MICROFILM TITLE

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